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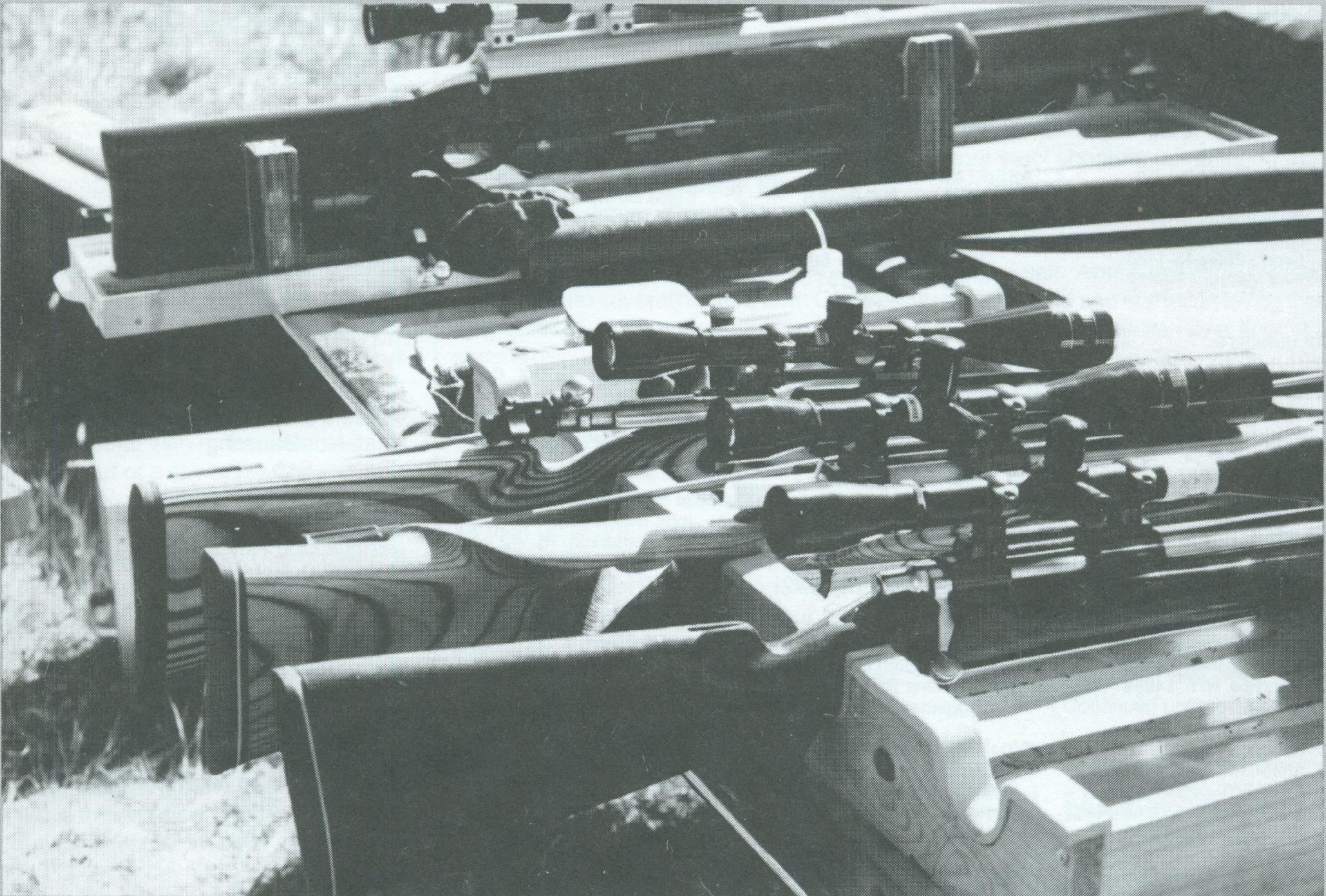
Dealing exclusively with the topic of extreme rifle accuracy



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THE THIRD ZORTMAN CRUSADE

by

Boyd Mace

I almost feel like giving up. There are more prairie dogs in Philips County, Montana than ever, in spite of our efforts last year and the year before. Our feeble try this year certainly had little effect. I swear that for every one you shoot there are ten more underground breeding. Such is the stuff that crusades are born of.

Our trip up was uneventful except for occasional heavy rain. We did pass by the home of an apparent survivalist. I wanted to get a picture of the Bradley Tank sitting in his front yard but the barbed wire and numerous warning signs convinced me it might be prudent to keep my distance. I know about these guys, they also love minefields.

We checked into our cabin and unloaded our gear. It was windy but we had a few hours of daylight left so headed out to a dogtown on a private ranch that was fairly close. This dogtown is known as the "honeyhole" as it does not show up on the maps and therefore does not get heavy pressure from hunters. At the honeyhole we ran into Fred from Illinois (his last name completely escapes me). Fred was having a great time shooting dogs with an antique 6.5X55 Swedish Mauser. In fact he had two of the things for which he had a total investment of about $60 each excluding scopes. Fred was thoroughly enjoying himself, a habit which I noticed again on other days when we had the opportunity to shoot with him. Fred wanted to shoot my big gun and killed a few dogs with it. Fred had built his own bench out of a sawhorse. It served his purpose although looking a bit odd.

The wind was a problem we encountered almost every day. At the best it dropped to 6 mph and at the worst it ran steadily at 12 to 14 mph, making it really tough to hit prairie dogs at long range. We were forced more than once to confine our shots to 400 yards and under. The noise from our big guns keeps everything down out of sight out to 300 yards except for the occasional stupid one. Many hunters shooting the bigger guns are unable to see where their bullets are hitting due to the recoil. Without a companion along to spot for them it is difficult to hit at long range. This is one of the reasons most hunt with small caliber rifles. The noise doesn't spook the dogs close in and range estimation isn't much of a problem. Precisely the reason I built my deuce. The Old Fart is retiring and moving to the left coast so I will be hunting alone until I can break in a new gunbearer.

COVER PHOTO

A few thousand bucks in rifles, as set up for cleaning on a Boyd Mace and friends safari.

The Old Fart mostly shot his .257 Improved as he intended to rebarrel it after this shoot and wanted to make sure the barrel was thoroughly shot out and therefore not waste it. He also was losing brass to split necks which upset him. I heard constant swearing about brass not being of the quality it used to be. I examined his brass and found most of it headstamped UMC and Peters! Some of this stuff must have been made before I was born. Indeed I wonder what he is going to say when he prices new brass, probably will have a heart attack.

I shot up my loads for the .220 Jaybird early in the week and did not reload as the wind was causing too much drift for the little 52 grain bullet. I found the 6MM useful with the 85 grain Sierra and mostly shot it along with the .240 Badger. The 105 VLD bullet from Berger came in handy when trying to pick off the little buggers at long range but my favorite bullet remains the 80 grain Berger hollowpoint. This bullet is the best I have ever tried in a 6MM. More about this later.

We ran into several hunters from Canada and found all of them very friendly. We had several discussions about guns and varmint hunting and learned about the absurd gun laws they have up there. The Canadians were shooting a variety of varmint guns with a couple of 40X Rem.'s also. They were extremely interested in our rifles as custom varmint guns are scarce in Canada.

Later in the week we met a rancher who kindly took us out to a large dogtown on his ranch. This town was ideal for our type of shooting. It stretched uphill across more than 200 acres. From one point we could see nearly all of it at one time without having to move the portable bench. We were able to catch a few hours of quiet weather before the rains and got in a lot of shooting at ranges to 500 yards. Interestingly enough it turned out that this rancher was the same one we ran into a couple of years ago in another dogtown and who seemed overly concerned about the safety of his cattle. We reminded him of this and we all got a chuckle out of it. We noticed that there were no cattle visible in this area however.

Since it rained we thought it was a good time to scout out some other dogtowns we hadn't seen before. One in particular we wanted to look at so we found the sign and started down a set of wagon tracks through the prairie. After several miles of fourwheeling through some nasty country it was apparent that something was wrong. Consulting the map we discovered we were a long way from where the dogtown was supposed to be. Eventually getting back to the main road I found the sign pointing in the wrong direction. Obviously someone had moved it. Now what kind of a scoundrel would do that? Now knowing where we were we went in and took a look. This was a very productive dogtown, several hundred acres of record book prairie dogs. It had stopped raining so we set up the bench and had at it. Within an hour the wind came back up, metered at 18 to 20 mps. RATS!

Back in town I ran into a guy at the store who wanted to show me his portable bench. It was homemade but nicely done. This guy had in mind that he would make up several and sell them. I tactfully pointed out a few flaws, mostly that it was too low. He said that he had designed it so a hunter could shoot off it using a bipod. I pointed out that most stool shooters use a tripod front rest and rear bag, something he found incredible. Also this guy was bigger than Mike Tyson and had proportioned the bench to suit himself. About this time the Old Fart wandered up and started in telling this oversize guy about how he never shot at prairie dogs at less than 500 yards. This guy wasn't buying any of it and things immediately started heating up. I used up a good deal of my tact and diplomacy in settling that down and invited the guy to stop by the cabin later to talk shooting.

To my great surprise he did. Him and the Old Fart started in again but kept things more peaceful although it reminded one of two rams butting horns. Another guy wandered in and introduced himself as Allen Allen of Thompson Falls, Montana (think

Continued on page 7

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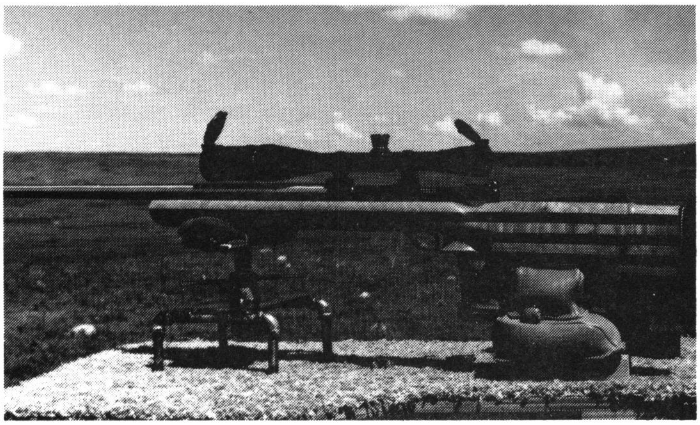


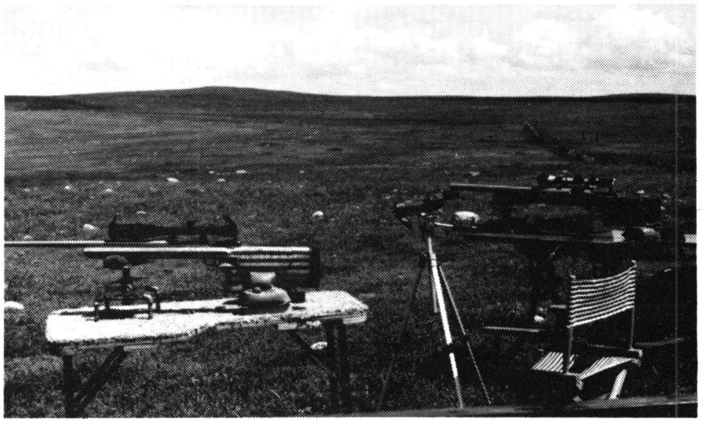
Allen Allen's Weatherby 22-250. It sports a 36X Leupold, Lilja barrel and gunsmithing and Allen's laminated stock.

Fred and his 65x55 Swedish Mauser.

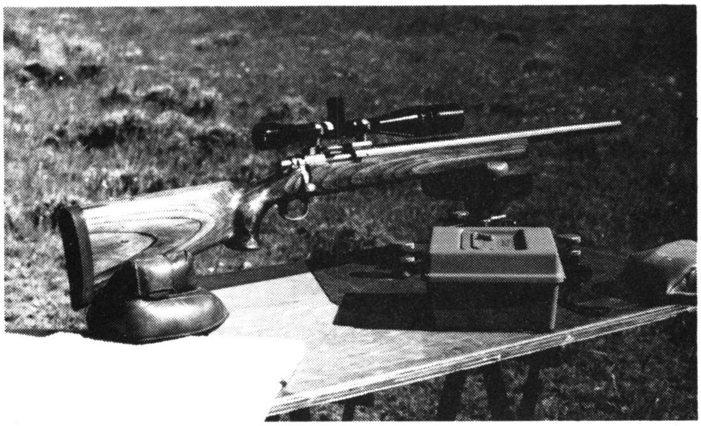
Allen killing prairie dogs with his 22-250.

The author at the bench.

Shooting prairie dogs. Notice the wind flag standing straight out.



Two custom prairie dog rifles. Allen's 22-250 Weatherby and my Stolle 240 Badger.

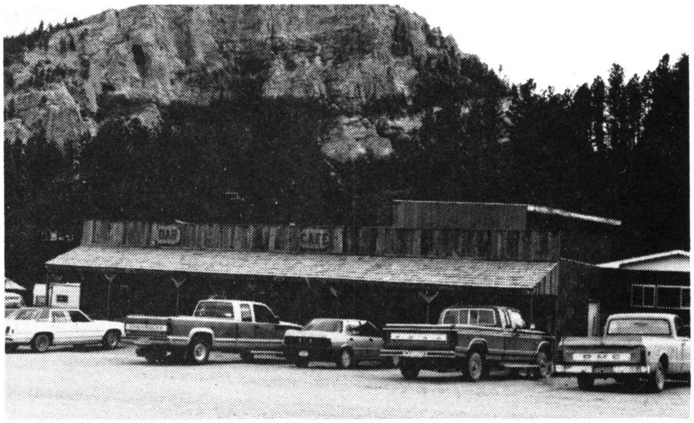


My .220 Jaybird. High winds kept me from using it at long range.

PRAIRIE DOG
HUNTING AREA

The BLM thoughtfully puts up signs for prairie dog hunters with a poor sense of direction.

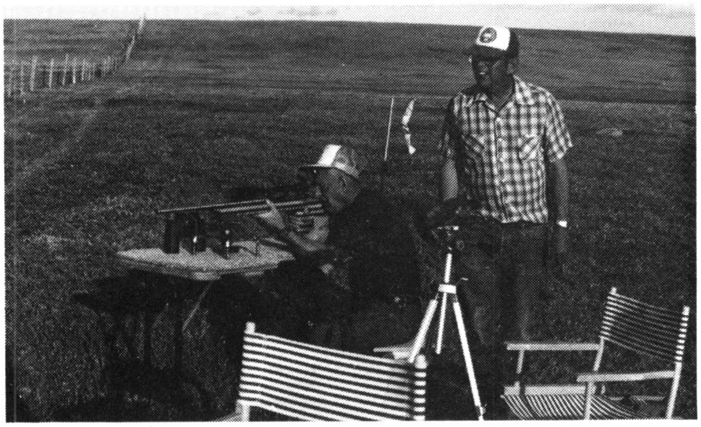
The Old Fart spots prairie dogs for Fred from Illinois.



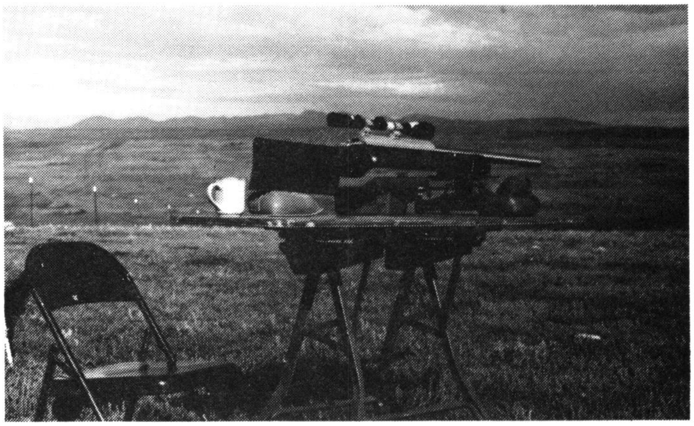
Downtown Zortman, Montana in front of the Miners Bar & Cafe.

Allen Allen tries out the .240 Badger.

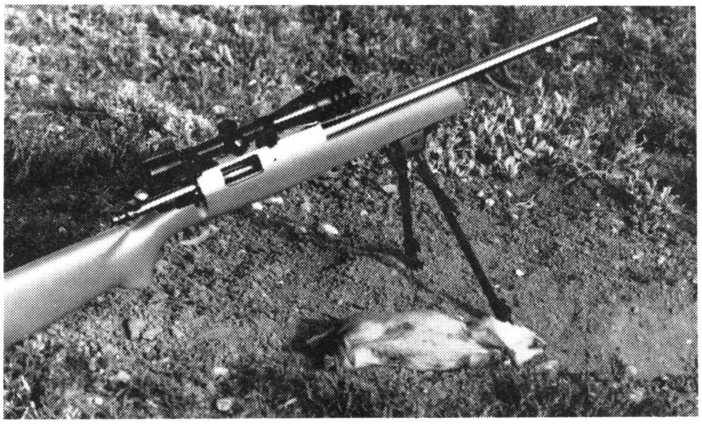
The Old Fart cleaning rifles. The cleaning stand cost a total of three bucks.



Allen Allen shooting the 22-250 off the bench. The bench as well as the pedestal rest is homemade. Both work.



The Stolle .240 Badger on the bench. This dog town is on a private ranch.



My deuce and a dead enemy.

ZORTMAN CRUSADE

Continued

about it a minute, does that remind you of the old Abbott and Costello joke about who's on first?). Seriously, Allen turned out to be one hell of a nice guy. He showed me a Lilja smithed Weatherby in 22-250 that I fell in love with. Allen had made the stock himself, a beautiful job in a laminated walnut/maple. He had a 36X Leupold on it which he liked but volunteered that the field of view was a bit small, something I can sympathize with. We were up until midnight shooting the bull.

Allen was supposed to be home the next day to work in his wife's store but decided to call in sick and shoot with us a day. We went back out to the ranch and had a great time shooting prairie dogs. I took a couple of shots with his Weatherby and can tell you that is one accurate little gun. Later in the day we shot in another dogtown nearby and had another great time until nearly dark. It was hot and windy that evening with mirage as thick as peasoup. The shifty wind was setting up some real interesting conditions which fooled us more than once. I am looking forward to shooting with Allen another time. One more thing. After the wind died down Allen and I decided to shoot his 22-250 and my 222 at a little longer range. We were both shooting at the same dog mound which had eight sitting on it in a row. After a couple of shots to establish the range we commenced to picking dogs off one at a time, each taking turns shooting. It turned out to be just under 400 yards.

We were running into more and more stool shooters in the prairie dog towns and the variety of portable benches is amazing. Almost everyone has his own idea of how a bench should be built in spite of the fact that perfectly good ones are available commercially. It appears to me that the tinkerers, experimenters, inventors and outright mad geniuses are now devoting their time to designing portable benches. I am not picking on anyone in particular here, maybe one of them will stumble on something that works. In fact I am looking for one that is rigid, has a built in seat, adjusts for uneven terrain and swivels so I won't have to be constantly moving it to get a better angle on a prairie dog. And it has to weigh about ten pounds. And is cheap. If you know of one send me a picture so I can improve it.

As I mentioned I am really getting to like the 80 grain Berger 6MM bullet. The bullet is very accurate and just blows up on prairie dogs. About three weeks ago the Old Fart was doing some testing with his 6MM Improved. This particular rifle had never shot much better than the high fours on the average using factory bullets. After some prodding he agreed to try the Bergers. I watched through the spotting scope as he put six bullets into a hole measuring just .210. He just couldn't believe it and pulled the next shot out of the group on purpose. After his blood pressure calmed down he shot another group that measured .310. His load chronographed at 3660.

I am hearing from several people who are shooting the 6MM/284. The powder that is really working with the 105 VLD turns out to be H1000. Full case loads are spinning the big bullet out at 3500 fps, chronographed, without excessive pressure. A couple of those with full blown custom rifles have reported quarter inch groups at that velocity. At least one is a benchrest shooter and I have no reason to doubt them. In my opinion the 284 case is ideally suited to the big 105 VLD. I doubt if the bullet is going to work if pushed any faster than 3500. As for lighter bullets the case is oversized as it will hold about 60 grains of powder. I haven't found any powder that can be loaded to 100% density behind the lighter bullets and still deliver respectable velocity without excessive pressures. For 85 grain and lighter bullets a case with about 52 grain capacity seems to be about right.

I could continue telling more tales of our escapades in Zortman but this story is already far too wordy.

Best Wishes,
Boyd Mace

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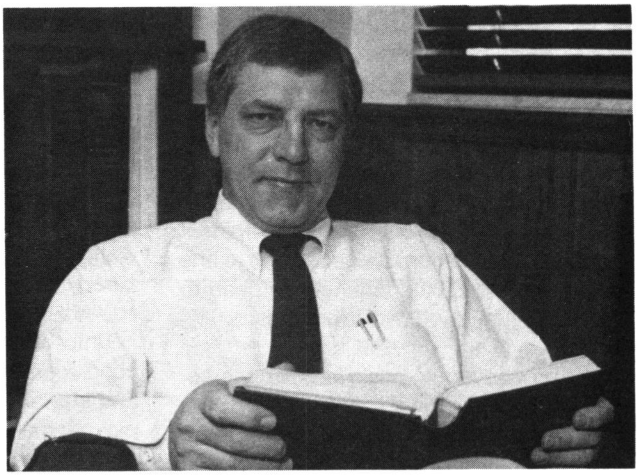
TRIGGER CONTROL

Buddy Salyer



There is little dispute that trigger control is the single most important factor in marksmanship. The truth of this is self-evident: if we pull the trigger when the sights are pointed at the "10", that is the score we receive. If the sights are pointed elsewhere when the rifle fires, the score suffers accordingly. Therefore, we must make sure the rifle goes off when we are pointed correctly, and that requires trigger control. Before we can achieve it, we must learn to ignore a great body of myth and misinformation that has grown up around the subject.

There are two ways that a good hit can be achieved: we can either make certain the rifle is pointed correctly when the trigger is pulled, or that the trigger is pulled when the rifle is sighted correctly. There is a subtle difference. For our purposes, we are going to select the second option — pull the trigger when the sight is correct. This constitutes trigger control. And as I will point out below, good trigger control requires that you learn to jerk the trigger.

[What??? Jerk the trigger??? That's heresy!!! Everybody knows you squeeze the trigger, not jerk, you jerk!!!]

Well, that's true. Squeezing is what we do, but the fact is that the shooter who has mastered trigger control — the Master — is jerking the trigger whether he admits it or not. In fact, he may not even know it.

The idea of the squeeze is always emphasized to beginning shooters because that is what has been recommended by winning shooters who **thought** that was what they were doing, but had never taken a very analytical look at their actions. And, perhaps, were not very articulate. Fathers take sons and/or daughters to the range on Saturday, hand them a rifle, and say, "squeeze the trigger." There is not much thought given to what this "squeeze" is actually going to accomplish. Merely squeezing the trigger, in and of itself, isn't going to guarantee any good hits; it may work just the opposite.

In order to appreciate the concept of trigger control, we must first dispense with the myth of the natural marksman that we Americans treasure so much. We are raised with the concept of a rugged individual who is keen of eye, broad of shoulder and thick of thigh, who can stand up on his two hind legs, point the rifle and **NEVER WAIVER.** His aim is unerring because he doesn't move. When we point our own rifle at the target and watch the bull dancing all around the front sight, we conclude that there is something wrong with us. Our manhood is put in doubt. If we can't hold as steady as Daniel Boone and Sgt. York are said to have held, then we are inadequate.

This myth is pure bunk. Every shooter of any distinction and honesty who has ever lectured or written about his skill will readily admit two things: one, that there is no such thing as a natural shooter (though some learn it more easily than others); and, two, that his sights move — and move a lot.

The typical pattern of sight movement is a figure "8" lying on its side: we hold on the bull for a moment, and then the sight dips down to the left and up, coming back to the bull; then, it will dip down to the right and make the same pattern. This pattern repeats itself as long as we are sighting, only it becomes much worse the longer we hold. Our muscles quickly tire from the effort of trying to support a relatively heavy object while attempting to orient it in two planes — horizontal and vertical.

The first thing we must accept is that the rifle is going to move in spite of everything we can do — it may be that exercise and clean living will help us minimize the movement, but it will always be there. We are not less manly because our sights move — we are just normal humans. Under the best of circumstances, a High Master's sights will at least touch the 9-ring during the process of aiming. The thing is, he doesn't (usually)

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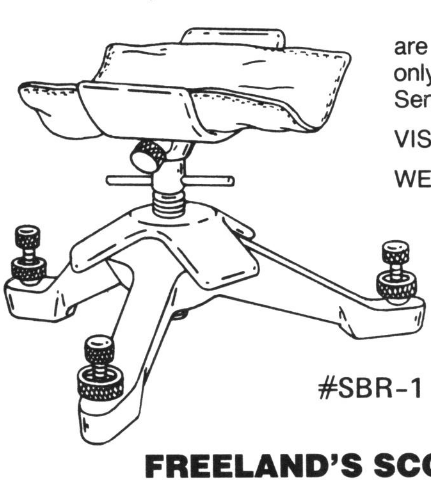

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TRIGGER CONTROL

Continued

pull the trigger when it is there.

When the front sight makes its looping cycle, we attempt to stop it as it passes back through the bull and hold it there while we make the trigger finger work. Even assuming we can achieve that perfect aim, it will last only a fraction of a second up to one to two seconds. That is when we need to make the gun go off. Achieving this is difficult.

The proper way to begin learning marksmanship is to use the squeeze method: you squeeze as long as the sight picture is good, and hold (not slacken) the squeeze when the sights drift. If we are only squeezing when the aim is correct, then the rifle will not fire when we are pointed elsewhere. Hence, a good hit. In theory, this is simple; in practice, extremely difficult.

The firing process is complex and requires the use of a computer, one that is capable of performing several tasks at once. The brain is a computer that fits this description, but it has its limits. Our mind instructs our muscles to raise the rifle and aim at the target. As the muzzle moves, another part of the brain is analyzing the relationship of the front sight to the bull to see if it is correct. If it isn't, it tells our muscles to make adjustments, and continues analyzing. What it wants to do is find the correct sight picture, steady the rifle, and then tell our finger to squeeze the trigger.

Unfortunately, by the time the brain has concluded that the sight picture is correct, and starts to send the message to our finger, our muscles have decided they are tired of doing their particular task and decide to do something else — move. We then go back through the whole process over and over. And the longer we attempt it, the less likely the trigger will be pulled at the right time.

The great problem is that at this stage of the game, aiming and pulling the trigger is a conscious — CONSCIOUS — process. We are actually trying to decide whether to pull the trigger, in much the same way we decide whether to buy brown shoes or black. The decision-making process is too slow — by the time we make up our mind to shoot, the barrel is pointing at someone else's target.

Trigger control, then, boils down to eliminating the decision making process from our task. That is, we want to put our finger on autopilot: when the sight picture is correct, the trigger finger flexes. No thinking, no agonizing, just pull.

Actually, reaching this state of grace is easier than it seems, although it cannot be achieved without some effort on the shooter's part.

The brain has a marvelous ability to develop shortcuts in achieving tasks assigned to it. When we were in the first grade, adding 2 plus 2 was a terrifically difficult task that often involved scratching, squirming and maybe even finger counting. As we progressed in school, we discovered that addition became easier and faster: we could total a column of single digits as quickly as we could say the numbers. At some point, probably in high school, we had a teacher who somehow taught us to add a column of triple digits just as quickly: without having to do any **conscious** calculations, we could quickly scan a column and produce an answer. The reason this became possible was because we repeated the process over and over until another part of the brain took the task away from the **conscious** part and started to do it automatically.

It is the same when we first begin to drive a car. We are self-conscious of our efforts and have to actually think each movement through: here's a traffic light — it's yellow — do I have time to go ahead or should I stop — I didn't see it turn yellow, so I don't know how long it's been yellow — guess I had better stop — hit the brakes — oops, too hard — ease up......and so on.

After we have been driving for a few months, our brain says, "Hey, I know what this bird is trying to do, and the circumstances under which he does it, and I am getting tired of having to think about it all the time, so I am just going to leave him out of it and do it myself." At that point, we find that much of the task of driving becomes automatic — we handle lights, lane changes, stopping and starting, while involved in a demanding conversation without missing a word or having an accident.

The same thing happens with shooting. We sight the rifle, eventually decide everything is correct, and finally manage to send the "shoot" message down to our finger. After we have done this enough times, some part of our brain finally says, "OK, I get the picture. What he wants to do is pull the trigger when the sight picture looks like this. Hell, if I had known what it was he was trying to do, I could have saved him a lot of trouble. From now on, when that front sight touches the bottom of the bull, I'm pulling the trigger. He better not change his mind because when I see that picture, the finger pulls."

This process actually happens: the brain can reach a state of reflex where the decision making process is **almost** totally eliminated from the act of shooting: when the eye sees a particular sight picture, the finger pulls.

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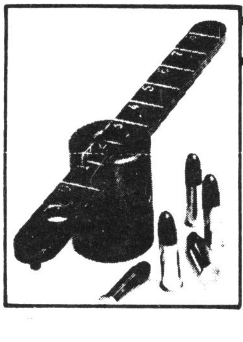

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Reaching the point where the brain will by-pass the thought process requires only one thing — repetitive shooting. The number of times it must be performed before it becomes automatic will vary with each individual, but it will eventually happen with all persons with normal brains. (David, suspect you should stay with your sand bags or rail guns — some people suggest you will never reach autopilot where pulling triggers is concerned.) But I emphasize: it takes repetition.

In my case, I reached this point after about 350 shots my first year of high-power shooting. I had fired about 300 rounds of practice before I reached Camp Perry. It happened right on the firing line during the National Match course when I suddenly discovered that the rifle was, in effect, going off by itself. Up to that point, I had been concentrating on squeezing the trigger when the sights were on the bull and holding when they drifted away. That is the way it occurs — you may not realize you have reached "autopilot" until some time later, but it will eventually become apparent.

Something that should be noted is that after a shooter has reached this point, it can be lost after a period of inactivity. However,

Continued on next page

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TRIGGER CONTROL

Continued

once you resume shooting, it will return in a shorter time.

Now, with this in mind, how can we use this information to improve our scores?

First, you are trying to train your brain to pull the trigger when it sees a certain sight picture. When you practice, aim the rifle and put pressure on the trigger as long as the sight picture is correct. If the sights move, keep the pressure on, but don't squeeze any more until the sight picture is correct again. This way, if you are only squeezing when the aim is correct, you are fairly assured of a good hit.

If you continue this practice long enough, you will discover — eventually — that you are no longer having to "decide" when to squeeze. Not only will the actual break become automatic, but the squeeze will, as well.

How precise the sight picture has to be before the trigger is pulled is up to you. You must realize that, during practice, if you are willing to consciously squeeze the trigger when the sight picture is no better than, say, the 8-ring, then that is what the brain will learn, and when it sees the certainty of an 8-point shot, the rifle is going to fire. Therefore, it is imperative when you practice that you establish a minimum value that you are willing to accept and stick with it. If you insist on a 10-ring hold, that is what will eventually be established as the value accepted by the brain.

We sometimes try to practice when we really don't feel like practicing. We go through the motions of practicing, but we are just playing at it. It is almost as if we are satisfied to fire a certain number of shots and call it a practice session. Or, we may have other things on our mind which prevent us from giving our full attention to the task. Under these circumstances, we would be better off not practicing at all, for if we go out one day and demand less than a perfect sight picture, the brain is going to condition itself to firing the shot to a lesser standard. You must keep the standard high.

It is not necessary that practice sessions be long. If you can get off ten to twenty shots or dry snaps a day for a few weeks, it will come to you. Actually, long sessions are probably harmful — the longer you practice, the more tired you become, and you become frustrated with the increased sight movement. Take it slow and easy.

I once read an interview with Pat McCann or some such whiz who indicated that he never got more than a couple of practice sessions before the National Matches. I had substantial doubt about that. How could someone who had fired only a few dozen practice shots go to Camp Perry and win the championship? I am now convinced of the truth of his statement. At some point in his life, he did put in hundreds of shots developing this firing reflex. Having acquired it, it would take less time each year to bring it back up to pitch than it had to originally develop it. With the superior concentration that seems inherent in the potential champion, it took very few shots to know that he was in the groove.

When it comes to practice, the brain doesn't really know the difference between dry firing and actually sending bullets down range. Consequently, dry firing is an excellent way to reach this conditioned state of trigger control without having to contend with the weather, recoil, and expense of ammunition. The main difference is that if you are not actually firing at a target, you can only assume you are shooting the 10-ring. Calling the shots would be close, but not exactly the same. Until you see a hole in the paper, you don't know if your call was correct.

I earlier referred to jerking the trigger. Although we begin each shot with a squeeze, we ultimately end up jerking the trigger. When the brain sees the sight picture that satisfies its standards, it does not send a signal down your arm that says, "Squeeze the trigger a little more." It says, **"SHOOT,"** and the finger movement is instantaneous. Folks, that is "jerking" in anyone's dictionary. What happens in your finger is very similar to what happens when you touch a hot iron — the finger **jerks,** although you are not aware of it.

Whether this jerking will affect your aim depends on where you are in the trigger pull. If, on a two-stage trigger, you have not taken up the slack, then the finger will have to jerk the trigger through a good part of an inch of arc, taking up the tension in the trigger spring and then the pressure on the sear before the shot breaks. Two things happen: (1) this alone will impart movement to the rifle; and (2) although the finger is moving very fast, there is an increased time during which the front sights can move. Therefore, you need to take up all the slack possible, short of firing the shot, as you settle the rifle to your shoulder and prepare to aim. A fair amount of practice will teach you how much you can pull without inadvertently touching off a round. That way, the finger will only have to jerk the trigger a very small fraction of an inch in a very small fraction of a second. This squeeze will also become reflexive.

I might add that "mental firing" can help. It is possible to close your eyes, aim the rifle and pull the trigger while lying flat on your back in bed and improve your score.

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There are some precautions that must be taken during a match. Keeping in mind that the rifle will fire when the brain sees the correct sight picture, you must minimize all chances that something will interfere. Even though your nerve synapses are triggered very quickly, and the finger motion is almost instantaneous, it doesn't quite happen with the speed of lightning. If the rifle is in motion, what appears to be a center hold when the brain says go may actually be further out when the finger muscles contract.

The longer you stand there aiming, the more your muscles tire and start to quiver, causing your sights to move. Worst of all, you get twitches, or spasms, which can move the sights very quickly, without notice. You have a very real potential for the sights to move in the same instant the trigger finger is being told to pull. Even though you may see the sight movement start, it is too late to hold a shot once the message has started toward your finger — the rifle is going to fire, come hell or high water.

Therefore, if you do not break the shot by the time you start getting the quivers, put the rifle down and rest. If you find you are having to force the rifle back to the bull and having to strain to hold steady, you shouldn't dream of pulling the trigger.

Perhaps the most detrimental thing affecting the process is the lack of concentration. And by that, I mean thinking of **anything** other than firing that one shot. On two occasions, I have had disaster strike for that very reason, both involving ten-shot matches. On one, my ninth shot had my score up to 85, and on the other my score stood at 87, by far the best shooting I had ever done. As I prepared for the last shot, all I could think of was, "If I can just hit the black, I will have a tremendous score (for me). I don't even have to fire a 10 to beat anything I have ever done before." My thinking about the final score, rather than the last shot, interfered with my concentration, and both times I fired a clean miss. As I look back on these events, I realize my brain was no longer on autopilot, but rather I was back into conscious, decision-making mode. It is a heartbreaking thing to watch the sights drift all the way past the target frame and have your mind say, "Hell, go ahead and pull the trigger."

With all this in mind, the practice pattern is this:

1. Dry fire all you can, making sure you only squeeze when you have the best possible sight picture. (Five good snaps are better than twenty indifferent ones.)

2. Firing live rounds is good, but not essential. The main benefit is to make sure your calls are correct. You may find that what you are calling a "10" is a "9" or "8", assuming your sights are adjusted correctly. And, of course, if your sights are not adjusted, you may be calling a true "10" but getting a different score.

3. Never let any thought other than **this shot** enter your mind. If at any point in the match you find your mind wandering on to something else, put the rifle down, close your eyes and get your head together. The greatest mental obstacle to good shooting is a feeling of futility — at some point in your string you realize you are not achieving the score you expected. At that point, there is a tendency — a strong one — to quickly finish that string and start preparing for the next. Champions are shooters who don't fire one shot while thinking about the last one.

LEFT THE RANGE

EARL STROUP, of Hayward, California left the range forever on July 28th of this year. Earl was a capable benchrest competitor for many years, and a respected gunsmith as well. He started shooting benchrest in the 1950's and eventually served as NBRSA director for the Southwest region in the 1970 era. (Reported by Red Cornelison).

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KELBLY, G Sr	3	1005	252	152	267			0	160	0		174		0
BRUNO, L	4	985	313	214	282			0	0	0		0		176
POWELL, D	5	958	233	0	444			0	0	281		0		0
HUCKEBA, C	6	951	348	174	429			0	0	0		0		0
CANTWELL, T	7	937	187	181	381			0	188	0		0		0
FREI, L	8	929	294	164	471			0	0	0		0		0
HASECUSTER, F	9	927	226	0	339			0	0	0		193		169
BULLOCH, B	10	925	263	215	447			0	0	0		0		0
BOYER, T	11	916	290	0	431			0	0	0		0		195
BAGGETT, L	12	896	305	196	395			0	0	0		0		0
HENSLEY, S	13	869	264	0	424			0	0	0		0		181
TUCKER, C	14	836	289	183	364			0	0	0		0		0
MARETZO, R	15	784	129	135	351			0	0	0		0		169
JOHNSON, P	16	769	0	157	431			0	0	0		181		0
BOYER, F	17	766	234	0	369			0	0	0		0		163
ROSENTHAL, B	18	765	147	0	441			0	177	0		0		0
MORGAN, H	19	754	0	213	287			0	0	254		0		0
RENEAU, R	20	727	281	0	446			0	0	0		0		0
GRIFFIN, R	21	723	250	50	251			0	172	0		0		0
MORTON, P	22	721	0	0	438			0	0	0		92		191
MITCHELL, P	23	712	0	108	436			0	0	0		0		168
NEILSON, D	24	708	166	0	0			195	182	0		165		0
SUTTON JACK	25	706	178	0	351			0	0	0		0		177
GAMMUTO, J	26	701	0	0	389			0	172	0		140		0
FAZIO, BILL	27	691	236	0	275			0	180	0		0		0
SCHARNHORST, L	28	689	223	158	157			0	151	0		0		0
BERGER, E	29	682	107	136	281			0	158	0		0		0
MESSER, J	30	677	0	149	271			0	0	257		0		0
MURDICA, L	31	657	230	122	305			0	0	0		0		0
ENGLEBRECHT, L	32	652	185	0	467			0	0	0		0		0
BERNARD, J	33	641	0	0	337			0	0	0		158		146
EUBER, A	34	635	0	0	463			0	0	0		0		172
DEVILIEGHER, B	35	631	0	0	464			0	0	0		0		167
MILLER, C	36	629	231	0	398			0	0	0		0		0
PARKER, R	37	625	298	114	213			0	0	0		0		0
GAMMON, B	38	625	0	0	313			0	0	0		157		155
DILL, R	39	624	0	0	418			0	0	206		0		0
BUCHTEL, S	40	622	240	0	382			0	0	0		0		0
DAVISON, A	41	612	116	149	347			0	0	0		0		0
OTTO, S	42	612	183	0	238			191	0	0		0		0
WAGNER, D	43	606	281	0	325			0	0	0		0		0

1990
BENCHREST SHOOTER OF THE YEAR

PREPARED BY WALT BALCH

Name	Place	Total Points	Cactus Classic	Crawfish Invit.	Super Shoot	IBS 200/300
Gary O'Cock	1	50	36	0	0	14
Tony Boyer	2	43	0	0	22	21
Alan Euber	3	30	0	0	30	0
Paul Mitchell	4	30	0	0	30	0
Norm Dixon	5	30	0	0	30	0
Lowell Frei	6	28	1	15	12	0
Perry Morton	7	27	0	0	6	21
Lester Bruno	8	24	24	0	0	0
B. Bulloch	9	20	0	20	0	0
Barry Sullenberger	10	20	0	0	0	20
Glenn Newick	11	18	0	18	0	0
Tony Peria	12	10	0	0	10	0
Jeff Summers	13	10	0	0	10	0
Jack Sutton	14	9	0	0	6	3
Dan Lilja	15	8	0	8	0	0
Ron Hoehn	16	8	0	0	8	0
Boyer Faye	17	8	0	0	0	8
Butch Wahl	18	8	0	0	0	8
Larry Baggett	19	7	5	0	2	0
L. Andrews	20	7	7	0	0	0
C. Miller	21	6	0	0	6	0
Larry Englebrecht	22	6	0	0	6	0
Red Cornelison	23	6	6	0	0	0
Don Powell	24	6	0	0	6	0
G. C. Schaefer	25	6	0	0	6	0
Jerry Johnson	26	6	0	6	0	0
G. Forys	27	5	0	5	0	0
Bill Brawand	28	5	0	0	0	5
E. Findley Jr.	29	5	5	0	0	0
J. Hostetler	30	5	0	5	0	0
John Chrisman	31	5	0	0	0	5
Jim Oliver	32	3	0	0	0	3
Harold MOrgan	33	3	0	3	0	0
L. Scharnhorst	34	3	0	3	0	0
A. Tsuchiya	35	3	3	0	0	0
T. Margelewicz	36	3	0	0	0	3
Joe Valentine	37	3	0	3	0	0
D. Mitchell	38	3	0	0	0	3
R. Parker	39	3	3	0	0	0
Don Gentner	40	1	0	0	0	1
B. Delighter	41	1	0	0	0	1
R. Brunet	42	1	0	1	0	0
Don Geraci	43	1	0	1	0	0
Tim Cantwell	44	1	0	1	0	0
M Lenard	45	1	0	1	0	0

Match Prep

Lifetime Tool

Primer Pocket Tools

Two types of carbide-tipped tools help you produce better handloads. Both have knurled handle's, and carbide tips should last indefinitely. MATCH PREP's shoulder produces uniform depth and flat-bottomed primer pockets to SAAMI specs, also cleaning out primer grit. The LIFETIME TOOL is a cleaner only, for either rifle or pistol cases. Specify large or small, $12.50 each. MATCH PREP in 3 sizes: small rifle and small pistol combined, or large rifle only, or large pistol only—specify; $22.50 each. Add $1 shipping for each tool. **Whitetail Design & Engineering, Ltd., 9421 E. Mannsiding Rd., Clare, Michigan 48617.**

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6MM — 63, 65, 68, 70 GRAIN @ $10.50 per 100 BT or FB

30 CAL. 110 - 150 @ $15.50 per 100

All bullets made in carbide dies on selected jackets.

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3655 West 214th Street
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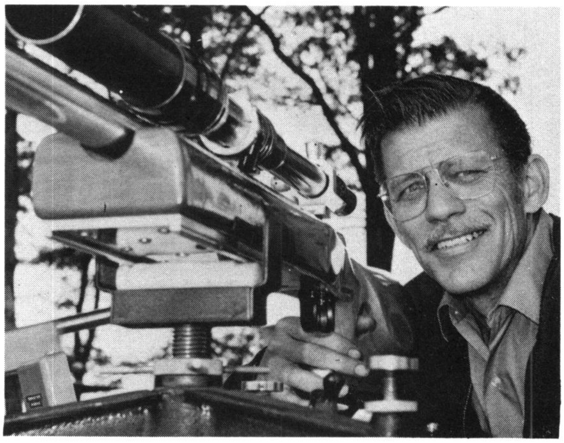
(914) 776-1581

PRODUCT REPORT

by

Lt. Col. Rick Hornbeck

— The Waller Range Bag
— Wagon Mound Productions



You have probably seen the ad in recent PS issues for the Waller Range Bag. Well, pictures do not come anywhere near doing justice to this product. It's a family run business, and from what I can see, they take the matter of turning out a quality product pretty seriously at the Waller Company. The bag is designed for the shooter, along with their other products, and the Range Bag use is limited only by one's individual imagination.

The bag is 9 inches high, 11 inches wide, and 26 inches long. It is made of 1000 Denier Dupont Cordura, a water repellent exterior. The interior lining is 200 Denier Oxford Nylon. The inside has removable partitions, which can also be removed if so desired (they are held in place with Velcro). This makes the bag very flexible in its possible applications; if there is a baby in the house you may have a devil of a time getting it back from your spouse. Water and dust stay out, and the contents are padded and protected. It has a hard, but light weight reinforced bottom, and will support a great deal of weight.

It is aircraft-carry-on-size, and if you occasionally travel to rifle matches by air, you just might really take a liking to this bag. I feel that the Waller Bag, teamed up with one of today's ridged metal gun cases for rifles and cleaning rods, should be able to handle the balance of your reloading equipment very nicely . . . and possibly still qualify as "carry-on". By the way, I've asked Skip Gordon to author a modest piece for these pages on the requirements from Big Brother relative to firearms transportation by plane. I know that Skip has lugged rifles and equipment around most of the world by plane, and since he has never been tossed into a local hoosegow, he just know the ins and outs of the regulations.

Just for a trial, I removed from my tool box all the necessary items for reloading at a benchrest match. I then moved some of the bag's inner partitions around, and lo and behold, all of it fit neatly into the Waller Range Bag, with space left over, and everything protected from the hard knocks of air travel. The removable two inch shoulder strap made it easy to move about. Since I needed

Krieger Barrels Congratulates
Eric Luhmann

1000 YARDS

We are proud that Eric chose our barrel installed by Tim Enders on a rifle built by his father, Tom Luhmann to win the coveted 1000/Yd. Service Rifle Farr Trophy in the 1989 National Matches at Camp Perry.

For information write:

KRIEGER BARRELS, INC.
N114 W18697 Clinton Drive
Germantown, WI 53022

a photo for this article, Connie Hornbeck was drafted to provide modeling. As I now look back on things, this was one of my dumber ideas . . . it called the bag to her attention . . . and now I frequently find it "on loan" to her for whatever trip she is off on at the moment. Shooters should avoid bringing their Waller Range Bag to the attention of the fairer sex . . . your bag is likely to be off somewhere or other at a time that you want to use it. I wish I could give you some guidance how to prevent this sort of misappropriation of male's personal property, but such matters are (obviously) beyond a mere columnist . . . perhaps the editor or the assistant editor could guide us here. (Editor: don't look at me; I've been in the domestic doghouse ever since Liz found out that I'd bought the Alfa-Romeo . . . before I had gotten around to breaking that little piece of news to her myself . . . well, I'm just trying to keep a low profile, and not attract any attention to myself. I'm confident that this thing will blow over . . . eventually. This probably would not have been a problem, but, in fairness to her . . . it did sort of come pretty soon after I'd bought the Corvette. And the fact that her car is now out in the driveway, because my Fiat Spyder is in her former garage spot . . . that probably didn't help a great deal either. No, thank you, I'll stay out of this little male-female matter, if you don't mind. You can, of course, call John Gammuto . . . but it's dollars to donuts that he's in Karen's doghouse for something or other).

The bag is double stitched at all stress points, with molded nylon hardware. The 6mm nylong zippers are the continuous element, self-healing type. The seams are covered, welted, and inside bound. This little rascal will take a devil of a beating, and should last for years. I'm sure all of us that are competition benchrest shooters have struggled from their car to their loading area at matches, 100 . . . 200 yards . . . carrying a tool box that weighs a short ton . . . eyes crossed from the strain . . . hyperventilating . . . heart pounding . . . Rupture City, here I come . . . if a few benchrest shooters start using the Waller Range Bag . . . they could make tool boxes obsolete in the game, so help me!

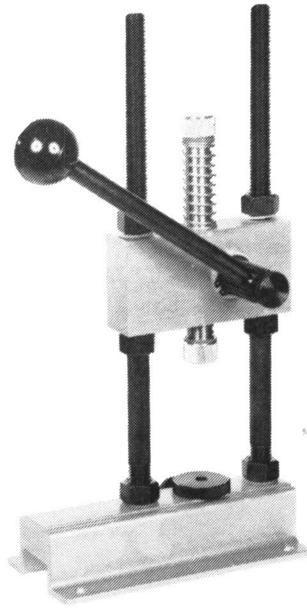
If your job or hobby requires you to regularly transport about a number of items that can be broken or damaged fairly easily . . . the example that comes to mind is that of a visiting nurse, with her medical equipment . . . or if you want a first rate camera bag, the Waller Range Bag will do the job first rate, with power to spare. With the adjustable interior partitions, the applications possible are just about limitless.

A smaller bag, with dimensions of 9″ x 6″ x 15″ is also available. It offers the very

Continued on next page

B-SQUARE TOOL SPECIALS

Super Mag Arbor Press



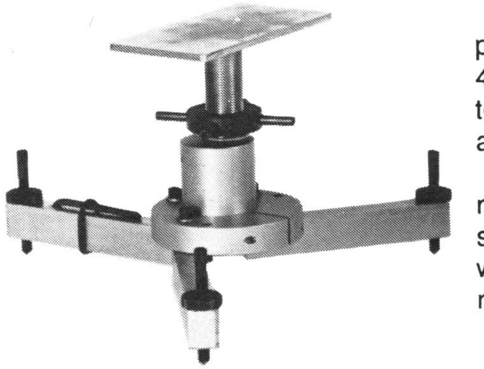
B-Square's super mag arbor press for precision reloading and industrial use has twin posts for "no-spring." All the load is between the posts. It easily resizes all caliber brass.

The press head is fully adjustable up and down on threaded posts for secure positioning. The ram, with replaceable brass caps and spring return, has over a 1-inch stroke. The handle is adjustable and the press can be used right- or left-handed.

Lightweight and portable for range use, this press will be a welcome bench rest loading tool. It's rated approximately 1 ton.

$79.95 + $3.50 for shipping.

Folding Rifle Rest



B-Square's rifle rest makes the perfect portable rest. It fits into a 4"x4"x10" box, and the legs unfold to a 13" diameter with 4-8" height adjustment.

The 8 pound professional fullsize rest features hardened leveling screws, a spoked height adjustment wheel and split clamp housings for rigidity.

$69.95 + $3.50 for shipping.

B-Square Precision Shooting Accessories
available from:

- **BOB PEASE ACCURACY**
  P.O. Box 310787, Zipp Rd.
  New Braunfels, TX 78131-0787
  (512) 625-1342
- **CUSTOM PRODUCTS**
  RD No. 1, Box 483, Saegertown,
  PA 16433. (814) 763-2769
- **SINCLAIR INTERNATIONAL**
  1200 Asbury Dr., New Haven,
  IN 46774. (219) 493-1858
- **HEINZ HENKE**
  Loenstrasse Postfach 1141,
  D-4476 Werlte, West Germany.
  5951/2729. FAX 5951/2727

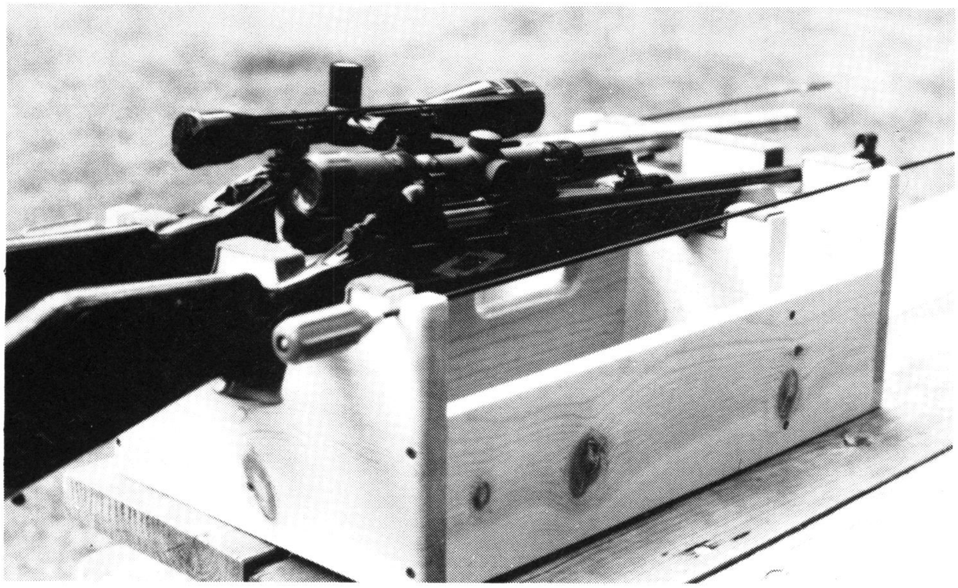
B B-SQUARE CO. P.O. Box 11281, Fort Worth, TX 76110

PRODUCT REPORT

Continued

same features and quality. Waller also offers a Soft Safe handgun case, which features a child-resistant, keyed, integral safety lock built into the zipper. This is offered in two sizes: 9″ x 12″, and 9″ x 18″. Also these cases have an integral double ply aluminized heat/fire protection shield. They are well padded, as are the bags.

If you find yourself in the market for this sort of equipment, by all means give this product line a close look. Waller offers a catalog with their complete line for $2.00. All are made in the USA. W. Waller & Son, Inc., 142 New Canaan Avenue, Norwalk, Conn. 06850. Toll free 1-800-874-BAGS. In Connecticut 1-838-4083. The Range Bag makes a great gift for just about anyone.



WAGON MOUND PRODUCTIONS

This company knows what they are about when it comes to quality wood working. They offer a double gun cleaning cradle, as well as a gun rack. Both work well with benchrest rifles.

Both items are made from solid pine wood of good quality. They are fitted and finished with excellent quality; both the cradle and the gun rack are finished with a hard, clear finish.

The cleaning cradle is 23″ x 14″ x 9″, and makes a stable cleaning platform for just about any type of rifle or shotgun. It holds two cleaning rods, in designated spots that are clear of the rifles. The barrels are aligned slightly downwards, so that the bore cleaner does not flow back into the action. It has a hardboard bottom, and plenty of room for a lot of cleaning equipment, and lots left over for reloading tools and supplies. A center carrying handle makes moving the cradle fully loaded with equipment easy to move around from place to place. All contact points with the firearm are finished with suede leather, for full protection from wear, or damage to the blueing.

The gun rack will be a new approach for many, because it is mounted on the wall, with the rifle barrels pointing downward. Since we often leave bore cleaner or oil in the barrels, this procedure assures us that the fluids will not end up in the chamber, action, or trigger. It also allows us to load the barrel with bore cleaner between cleanings, after coming home from a match, with no worries about the fluids finding their way into the rifle bedding . . . which doesn't do a whole lot (good) for rifle accuracy.

The gun rack will be very acceptable in appearance in any den or shop, and is a nice addition generally. It holds eight rifles or shotguns.

Both the cleaning cradle and the gun rack are $49.95 each, plus UPS shipping. The comments overheard at Super Shoot were all positive. The assistant editor ended up with a Wagon Mound cleaning cradle (Editor: Rick and I spent hours trying to show him how to use the darn thing; he kept putting his rifles in upside down . . . or putting the rifle where the cleaning rod was supposed to go . . . or vice versa. Finally, Rick and I just gave up, and cleaned his guns for him after every match. It was a lot easier. Somehow or other, to tell the truth . . . I have this uneasy feeling that we were had). Made in the USA. Wagon Mound Productions, Wagon Mound, New Mexico 87752. Phone (505) 666-2140.

CARBIDE MANDRELS

22 cal 6 mm 25 cal 7 mm 30 cal	Hart & Sinclair Neck Turners **$50 each**

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30% off list prices of Redding, C-H, Bonanza's top quality dies and equipment. Send $3.50 for manufacturer's catalog/price pack, refundable on $25 order. VISA/MasterCard accepted. **Vega Tool Company**, Dept. 488, 1840 Commerce St., Unit H, Boulder Colorado 80301. (303) 443-4750.

FORMING THE 6 PPC FROM 7.62 X 39 BRASS

BY REDDING RELOADING EQUIPMENT

Dies Required

1. Redding 6mm PPC Form Die #1
2. Redding 6mm PPC Form Die #2
3. Redding 6mm PPC F.L. Die Set

Brass Required

6mm PPC cases may be made by necking down and forming 7.62 x 39 brass. It is desirable to use new unfired cartridges for forming. It is softer and easier to work since it has not yet been work hardened by repeated firings.

There is always a potential problem when case forming from one caliber to another. The neck thickness increases. You should be aware of this problem and its potential dangers. You WILL encounter this problem when making 6mm cases from 7.62 x 39 brass. Reaming or turning of chamber necks is an absolute necessity in order to produce cases that will chamber and function safely.

We recommend inside reaming or outside turning of the case necks after the use of the #1 form die. Thinning the case necks at a larger diameter than the final size helps eliminate the "donut" where the thinning stops because further neck diameter reduction puts this point in the case shoulder.

Recommended Sequence

1. 6mm PPC For Die #1 — Adjust die tightly against shellholder.
2. Outside neck turn or inside neck ream using any commercially available turning tool.
3. 6mm PPC Trim Die — Functions as Form Die #2. File off any excess and deburr.
4. Final resize and bullet seating using the standard f.l. die set.

Note

Because the 6mm PPC was a "Wildcat" cartridge before the adoption of the 6mm PPC USA standards, many variations exist in chamber sizes. Particularly in the neck diameter. As a result only you and your gunsmith can properly fit the brass to your chamber. The following caution applies to all such "Wildcat" cartridges.

Caution

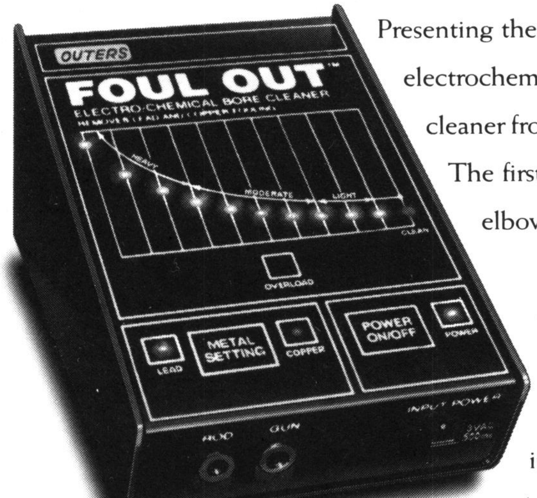
A note of caution applies to "Wildcat" calibers and all case forming operations. WATCH THE NECK DIAMETER. If insufficient space is available in your chamber to allow the case necks to "open up" and release the bullet, very dangerous pressures can result. Any difficulty in chambering is a caution flag!

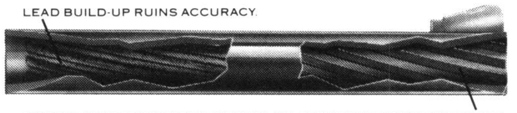
If possible compare the neck diameter measurements of a previously fired case from YOUR chamber with those of a loaded round. The neck diameter of the fired case should be a minimum of .003″ larger than the unfired one. If in doubt, consult a competent gunsmith.

If you have any questions concerning the above procedure contact:

Redding Reloading Equipment
Redding-Hunter, Inc.
1089 Starr Road
Cortland, NY 13077
Attention: Special Die Services
or call, (607) 753-3331

OUTERS® NEW FOUL OUT™ GUARANTEES THE WORLD'S CLEANEST GUN BARRELS WITH NO ELBOW GREASE.

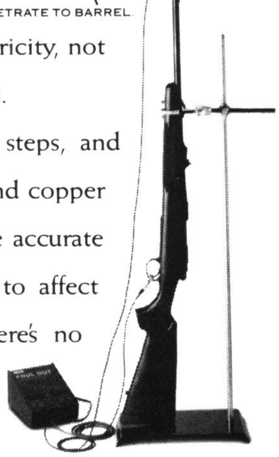



LEAD BUILD-UP RUINS ACCURACY.
COPPER FOULING CAUSES PITTING. OIL CAN'T PENETRATE TO BARREL.

Presenting the Foul Out electrochemical bore cleaner from Outers. The first bore cleaner in the world powered by electricity, not elbow grease. You won't believe how well it works.

Just plug it in and follow a few simple steps, and our patented process totally removes lead and copper deposits. And a cleaner gun means a more accurate gun, because there's no metallic build-up to affect internal ballistic uniformity. Better still, there's no cleaning rod abrasion. Result: extended barrel life.

So if the thought of a cleaner gun with less effort sounds appealing, visit your nearest Outers dealer. Where electricity is now waiting to be discovered.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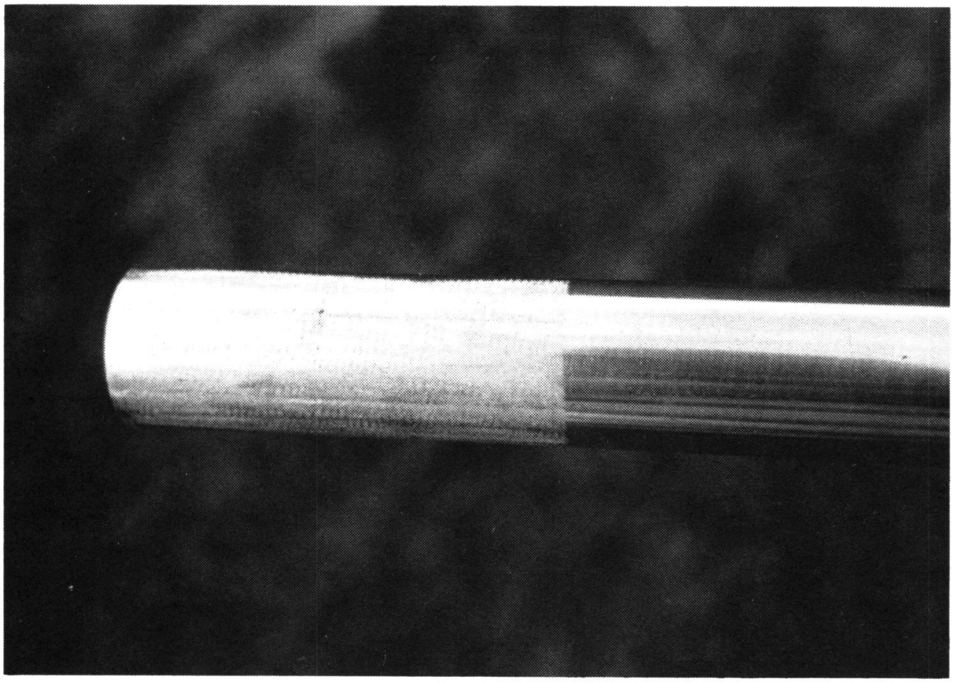
BEDDING



#1.

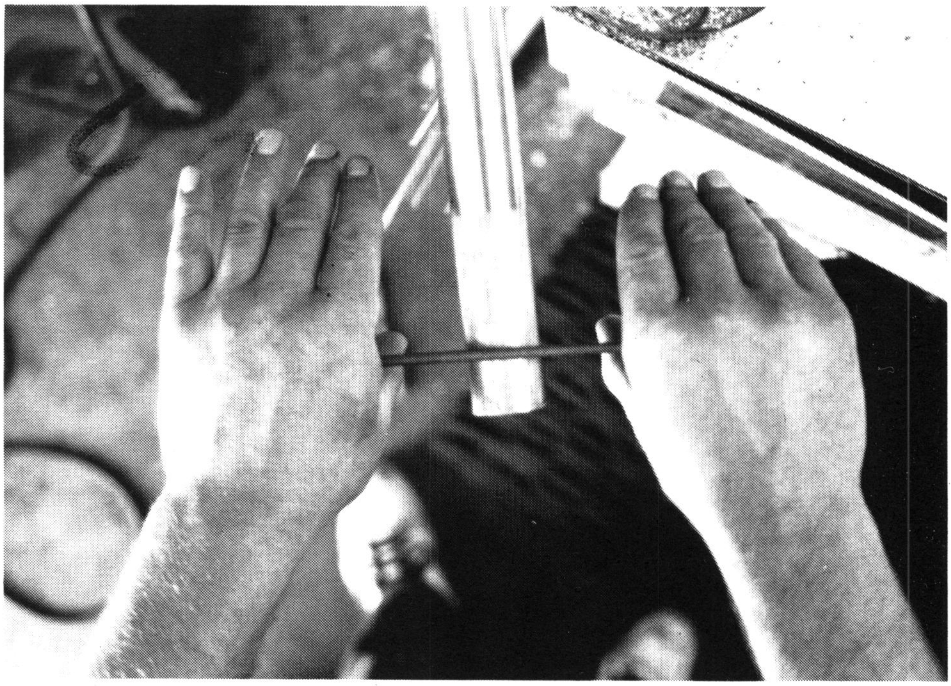
Dear Dave,

I read the June '90 issue of Precision Shooting with great interest. Especially the letters concerning "glue ins versus pillow bedding".

I have been using a technique in my glue in jobs for many years with complete success and have never had one come loose. In fact the last time I tried to remove a barreled action from a fiberglass stock after I had glued it in and shot it for years, it finally had to be just torn out in spite of freezing it several times.

I have enclosed some pictures that I hope will help in getting the idea or technique across to anyone that may be interested.

I simply take a chain saw file and roll it back and forth and over and over the bottom of the receiver until it is properly torn up. And the sharp file used in such a manner really does a job on the metal. I take great care to remove all oil and grease from the file as well as the receiver. I wash both with carbon



#2A.

CONGRATULATIONS
TO

TOM LEIGHTON
OF
GEIGERTOWN
PENNSYLVANIA

Tom was the grand aggregate winner of the 1990 Super Shoot at the Original Pennsylvania 1000 Yard Benchrest Club, Williamsport, PA. Tom chose a 30″ long 1.5″ diameter Lilja barrel for his winning performance. Nice shooting, Tom!

Lilja barrels are available for benchrest, 1000 yard benchrest, rifle and pistol silhouette, highpower, smallbore, and high grade hunting rifles. For more information contact:

Lilja Precision Rifle Barrels, Inc.
P.O. Box 372
Plains, Montana 59859
406-826-3084

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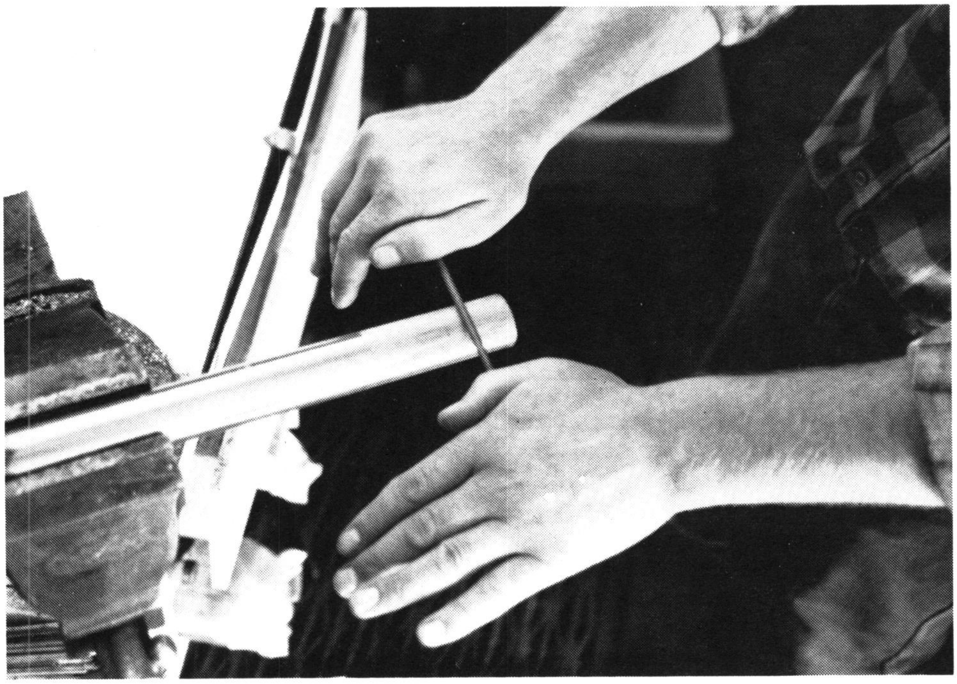
Heavy steel legs & rugged angled brackets. Large 1½″ thick heavy top. 29″W x 44″L x 33″ High. Easy setup. 3 Leg Model 55 lbs. $119.95. 4 Leg Model 65 lbs. $139.95. 3-4 Leg Combo Model 69 lbs. $149.95. Plus UPS. ARMOR METAL PRODUCTS, P.O. BOX 4609, HELENA, MT 59604. (406) 442-5560.

Turn case necks uniform within .0001 with this Marquart Neck Turning Tool — pilot diameters from .17 to .30 caliber. We specialize in rebarreling and conversions — and CUT-RIFLED barrels, 7mm to .45 caliber. Marquart Precision Co.; Box 1740; Prescott, AZ 86302; (602) 445-5646



#2B.

tetrachloride if I can get it or at least one of the good brake cleaners purchased at the auto parts store. Now a coarser file can be used but I have tried them and still favor the chainsaw files. They seem to be a bit sharper and they seem to tear the metal better.

When I am ready for the glue (I use Devcon) I smear it firmly with my finger into the roughed up area of the receiver. I also drill many small holes at different angles in the bedding area of the stock. If I remember correctly I used a 3/16ths drill on the last job I did and drilled the holes up to a half inch deep. This method has worked equally well for me in both fiberglass stocks as well as very dry wood stocks. I take great care to make sure also that the holes that are drilled in the bedding area of the stock are filled with the gluing agent.

I would not recommend this method if one may feel that he will be taking the barrel and action out of the stock anytime soon. This is a PERMANENT bedding system and one needs to know it before using it.

I did not have an action handy so I have enclosed some pictures of a piece of steel pipe that I hope will suffice in getting the technique across.

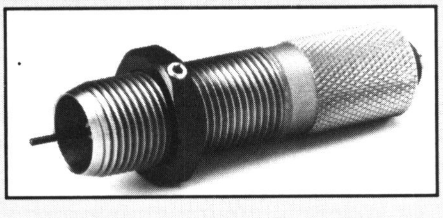
Picture number 1 shows where the pipe was prepared with the file up to the polished area.

Pictures number 2 show how the file is used rolling it back and forth on the bottom of the receiver. Flat areas on the recoil lug are prepared the same way.

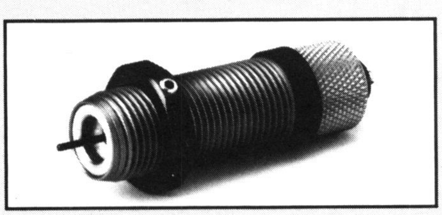
I hope that this information may be of interest to you as well as other shooters.

Kindest regards,
Lee Rogers
High Place Ranch
RR #2, Burns Lake
British Columbia, Canada V0J 1E0
(604) 694-3691

WHAT'S NEW IN RELOADING

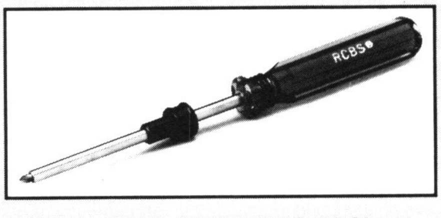


• **UNIVERSAL DECAP DIE:** As the name suggests, this single die allows handloaders to deprime cases in a wide range of calibers *before* they have been cleaned or lubricated. It will remove spent primers from .22 through .45 caliber without readjustment.



• **LUBE DIE:** Developed primarily for use with progressive reloaders, the RCBS Lube Die eliminates the messy chore of hand lubing cases on a pad. In addition to progressive reloaders, Lube Die can be positioned in a single stage press or mounted on a powder measure stand for convenient use.

• **PRECISION MIC:** One of the handiest and most innovative products to come along in several years is the new Precision Mic from RCBS. This gauge not only measures the chamber headspace dimension of a rifle but can also be used to measure bullet seating depth. For the reloader and benchrest shooter seeking the best possible performance from their rifles, this new gauge is a must. Available in a variety of calibers.



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MARMOTA MONAX

PART II

by

Jerry Faul

The first day of the 1990 Woodchuck season for the Pres. and myself finally arrived. The morning of April 20th, 1990 came very early, 3:00 a.m. to be precise. The "Pres" picked me up at home and we headed north on the New Jersey Turnpike toward our happy hunting grounds in rural upstate New York. Four hours later, we arrived a little early to buy our hunting licenses, so we decided to tour the area and spot for this year's crop of "Marmota Monax".

We were a little hesitant to start this early in the season, being of the old school that believes the end of May is safe from the point of view that by then the pups have been born and weaned. During the winter however, I did some research on our old quarry and found that several wildlife biologists believe that Mamma groundhog won't leave the nest until her pups are fully capable of fending for themselves and the only likelihood of seeing a female out in the open will only occur when she is finished nursing her current brood.

After scouting for and spotting several "Chucks" out in the open feeding, we headed back to the local NY Department of Environmental Conservation office and purchased our hunting licenses. Upon leaving the building, it started to rain. The entire day was overcast, windy, with intermittent rain showers.

Finally practicing what he has been preaching for the last twenty+ years, the Pres. started the truck and headed to the gravel pit to put up a target to verify his 220 Swift's zero. This accomplished, I verified that my .243 Ackley Improved was where it should be and was about to go retrieve the target frame when the Pres. told me he had brought another rifle with him that he wanted to shoot. I said, "Bert isn't one 220 Swift enough?" He replied, "Sure, but this isn't a Swift". Holy Sugar the world is changing. The Berlin wall is down, the Eastern block nations are becoming democratic, and the Pres. has brought something other than a Swift on a Woodchuck hunt. This is all most too much for one man to absorb in one short lifetime.

"What in the wonderful world is it then?", I managed to finally say. "Well, it's what I call a 22/243 Something", he said with the biggest grin on his face I've ever seen. "And it's not almost as good as the Swift, it may be better". Stop the world I want to get off! This was just too much in one day. With shaking hands, I reached out and was presented with the Pres.' latest experiment in the quest for the ultimate woodchucking rifle.

What I held in my hands was an old Savage 112V action with a 27 inch heavy stainless steel Shilen match barrel with a rifling pitch of 1 turn in 14 inches, glass pillar bedded in the original wood stock, with a Timney adjustable trigger set at 20 ozs. This outfit was topped off with a Bausch and Lomb 6-24x target scope. This little beauty must have weighed at least 14 lbs. All the work was done by Clarence Hammonds.

The Pres.' 22/243 is his own unique member of the 22/243 clan originally started by Middlested and latter joined by the CHeetah, Jaybird, and the Super PDC. Middlested changed the 243 Winchester cartridge's 20 degree shoulder to 30 degrees and necked the case down to 22 caliber, retaining the larger rifle primer. Jim Carmichel and Fred Huntington created two versions of the CHeetah, the MK I with a 40 degree shoulder and the Mk II with a 28 degree shoulder. Both CHeetah versions using a small rifle primer thus causing a rather long and deliberate case forming process. The Pres.' version is a CHeetah Mk I chamber but he uses 243 brass with the large rifle primer. This process all started when Clarence Hammonds had a CHeetah Mk I reamer made and available when the Pres. decided to have his old Savage 112V rebarreled due to a marked absence of rifling. The rifle had started life as a 222 Rem. which was subsequently rechambered to the Swift, rechambered again to the 22/243 and now rebarreled in 22/243 to become the "ultimate" chuck getter. The savage action makes these conversions easy because of the multiple part bolt arrangement allowing just the front area to be replaced for the various cartridge head sizes. This particular cartridge starts life as a new piece of .243 Winchester brass. Bert neck turns the new brass just enough to make it even thickness, then necks it down using an RCBS 22

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CHeetah Mark I (40 degree) full length sizing die. The neck is then turned to an even .012, the chamber neck being .250. Initial fire forming is his own home brew of bullseye and sealing wax which sets the proper headspace. The second fire forming is done with bullets and full throttle loads that sets the final case configuration which has a 40 degree shoulder, large primer pocket, minimum body taper, lots of powder capacity, and a loaded neck measurement of .248. Subsequent reloading is done using a set of custom made dies supplied by Clarence. The shoulder angle differentiates it from the Middlested and the large rifle primer separates it from both versions of the CHeetah.

The Pres. uses lots of IMR 4350 powder, CCI Large Bench Rest primers, and 55 grain Remington Power-Lokt HP bullets. He tells me that he had to back off a little from some of his testing loads (4310 fps with 52 grain bullets when the bolt handle was a "little" hard to lift) and is now settled on a load that gives him 4,150 fps chronographed at 10 feet from the muzzle using the 55 grainers. (More on this in a later article since the Pres. has consented to allowing me to do some testing with him at Central Jersey Rifle and Pistol Club's known distance rifle range.) The large primer hole seems to have solved the ignition problems reported in the CHeetah MkI and MkII. Bert uses well constructed bullets because of the slightly thicker jackets than found on most varmint bullets. The centrifugal force at 4,150 fps does terrible things to lightly jacketed bullets. It does appear to shoot **flat** — since at the gravel pit we could not detect any bullet drop for as far away as we could place the target, approx 200 yds (more testing needs to be done and is planned). Yes the Pres. does admit this configuration my be a bit "overbore". Clarence had advised him to "find a load and go shoot Chucks" — interpreted to mean that a long load development and target shooting regime was not compatible with long barrel life.

The score at the end of the day was "Chucks"-4, Bert-2, and Jerry- 2. The wind was really blowing, it was raining on and off, it was cloudy, but the grass was still very short. The Chucks were skittish, not venturing very far from their holes. Bert and I have noticed this behavior before on very windy days. I must give credit were credit is due. The Pres. had two outstanding shots — one at two hundred yards with just the Chucks head sticking out of the hole and a superb 350 yards shot with the Chuck down on all fours standing sideways. The one shot he missed was truly a "Hail Mary" attempt at well over 600 yards uphill. Mr. Marmota was again playing "hide and seek" with just his head coming out of the hole to look at us a long, long way away. The Pres. was holding two full Chucks to the left and one Chuck head high. This game went on for several shots without much success other than drawing a crowd of local farmers stopping on the road behind us trying to figure out what in the world were we looking at, let alone shooting at. I strolled over to the on lookers and let them use my binoculars to see what the fun was about. The Pres. finally gave up after 10 shots. Through my 7x binoculars the Chuck looked about the size of a field mouse at 25 yards. It was just impossible to dope the wind over that range when it was constantly changing in velocity and direction.

My efforts were not as glamorous. I had a headspace problem, not the rifle's chamber-cartridge relationship, I'm talking about **my** headspace. I simply blew three fine 250-300 yard shots. It happens. My two glory shots were both well under 100 yards. I'd like to be able to describe my terrific staking ability but the truth is I kind of just walked up on them.

The day was called at around 5:00 p.m. due to the intermittent rain turning into a real gully washer. The day was fun with some great news — 1. All the chucks shot were most definitely male; 2. The Pres. really likes his new toy; and 3. We are already talking about the next trip.

I'll let you know how this next trip turns out. See ya.

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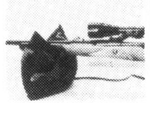

STOCK OPTIONS

JOHN J. GAMMUTO

Several months ago I commented on a unique stocking concept that was being developed and tested by Tom Meredith of TM Stockworks. Meredith's work, now complete, might change the way some benchrest competitors approach the 10.5 and 13.5 pound weight requirements of varmint class competition.

Meredith's new stock system makes use of one barreled action and two perfectly mated and interchangeable stocks. The only visual difference between the two stocks is the number of aluminum blocks used to support the action. See photograph #3. The stock on the right, the heavier of the two, weighs exactly three pounds more than the stock on the left. Notice the highlighted bedding block configurations. The heavy stock easily accommodates a single aluminum block to support the two forward action screws, while the lighter stock makes use of two smaller blocks to save weight. The rear action screw on both stocks is supported by a cylindrical bedding block.

It took Tom about a year to refine the technique that allows the two stock system to be a "workable" option. I'm predicting that new shooters, especially those with limited budgets, will find this to be a most appealing alternative to purchasing two guns.

It has long been held that there is some advantage to shooting a heavier gun. This can and has been attributed to several factors, some of which are increased rifle to rest stability, less violent recoil, and longer, stiffer barrels. The argument for heavier barrels has been somewhat diminished, judging by the number of fluted barrels I'm seeing on the line these days. You can get a pretty fair length of barrel on a light varmint rifle if the taper and fluting are properly calculated. This allows more weight to be distributed to other components such as stocks and heavier actions with increased bedding surfaces.

When Tom discussed this project with me a year ago, I was skeptical. We talked about point of impact changes, weight distribution, and bedding technique in general. Even though he had never attempted any-

Photo #1. Meredith changing out one of his two stocks.

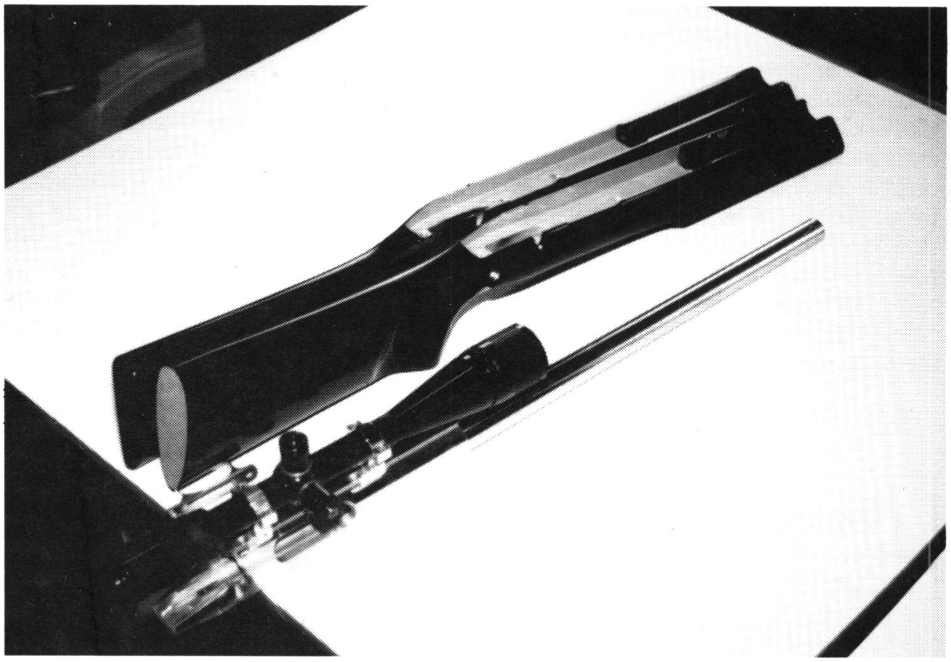

Photo #2. Light varmint stock (top), heavy varmint stock (bottom), barreled Stolle "Teddy" action.

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thing like this before, he still expressed confidence in his ability to get the job done. You have to admire that.

I have, over the years, tried all of the available barrel, stock, and weight system approaches. To be honest, I never really got comfortable with any of them. Changing barrels, adding weight, forgetting to remove weight, carrying additional tools to matches, working up loads for different barrels, etc..., all got to be too much like work. Have you ever watched an Indy 500 pit crew at work? That's the way I was beginning to feel.

Meredith's two stock system eliminates much of the above. All you need to bring with you is the extra stock and a set of Allen wrenches. It only takes two to three minutes from start to finish to change them out. After that, you can go right back up to the line and be confident that nothing has changed, point of impact included.

It is my contention that there is an advantage to using the same barrel, load, and cartridges. If the rifle shot well in one varmint class, it is a pretty safe bet that it will also do well in the other. It is true that you wear barrels out faster when you only shoot one, but it's a trade-off with respect to cost. So what does it matter?

I believe Tom Meredith is on to something here. I've seen him shoot the stock system very well at several matches now, including this year's Super Shoot. He's on the cutting edge and that's what makes him interesting.

If you would like to know more about the two stock system, you can reach Tom at either Sinclair International (219 493-1858), or at his shop (219 485-5389).

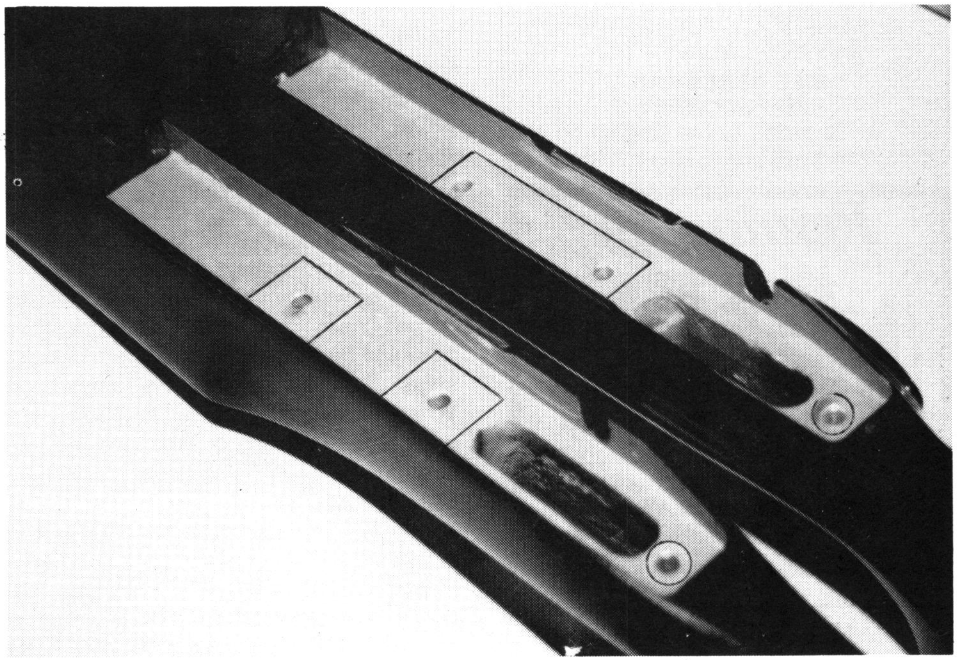

Photo #3. Pillar bedded actions.

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The 6BR

It seems to me that this year I have detected increased conversation among the benchrest shooters at matches that I've attended about trying "a different cartridge" (other than the 6PPC) in the near future. Several times in the history of the PPC there have been occasions, often of several months duration, when PPC cases were completely unavailable. These occasions have caused shooters with new guns . . . guns they were unable to fire, for lack of cartridge cases, to ponder the question, "should I be trying a different cartridge, instead of putting up with this nonsense?" While PPC cases are indeed available these days, still the forces or emotions put into play during these no-cases-available periods linger on.

Shortly after I started benchrest shooting in the mid 1970s, Dr. Palmisano and Ferris Pindell brought forth the PPC cartridge, and pretty much stood the sport on its collective ear. Much like the advent of the .222 Remington back in 1950 . . . the old order suddenly found itself having to give way to a new order of things.

Even though the PPC was shaping up as being the apparent case to be shooting, back in 1976-1977, I elected to cast my lot in with the BR case, trying both the .22 and 6mm versions. I suspect that a large part of my BR decision was that special bolt face size required for the PPC . . . mid-way between the smaller "deuce" bolt face, and the larger .308 size. My BR chambered rifles have . . . for me, at least . . . shot as well as the PPC rifles in my experience of some twenty years. Contrary to reports from other quarters I have had no case or case extraction problems with the BR. The cartridge case received a certain amount of negative reviews in its early days, mostly from shooters who were having a problem fitting their brass to their gun. But that was in the era when the shooter had to work with the full length Remington "basic" case. Today, with the wide availability of the 6BR and 7BR cases the task of forming brass has been greatly simplified.

As the editor has often bemoaned in these pages, the benchrest shooters, by and large, stopped experimenting, and have become instead . . . a group of match shooters, whose primary, if not only, interest is in winning rifle matches. Most shooters don't try anything different at all until they come up with a bad group at 200 yards . . . then they go up or down frantically on their powder measure, until things return to more or less normal. A few of the more adventurous will muddle a bit with seating depth . . . but in 1990 . . . "experimenting" seems confined to the click setting on Culver measures, or the length of the top stem on Wilson seating dies.

I had a long lapse in my shooting during the 1980s, due to demands by family and work, but about two years ago I was able to return to the sport. In the past two years I

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have shot many groups in the zeros at 100 yards, and in the ones and twos at 200 yards, when using my BR chambered rifles. When I goofed up at a match . . . it was my fault, not problems with the BR. In a match at Fairchance, in June, I shot a 10 shot group at 100 yards that measured .135, with a .22 BR (Editor: reported in this month's official screamer news). I was shooting a 13½ pound rifle in the unlimited class at the time; despite the considerable weight handicap that I was giving away I still managed to finish 15th in a field of 60.

With the BR I don't over-pressure my cases. My charge weight is usually within one grain of what the PPC shooters are using, and I never have to full length resize my cases. There is a considerable bonus from all this, at least as I see things . . . by using only one grain more powder in a slightly larger case, at lower breech pressure . . . I still get the same muzzle velocity, but with longer accuracy life for my barrel. Also the lower heat seems to lower jacket wash inside the barrel.

There are several versions of the BR in slightly shortened form. The Soby - Olewine - Short Red - Tall Dog are just four that come to mind. Most shorten the overall case length about .100″. These wildcats have an appeal to those who firmly believe that the PPC cartridge has the ideal case capacity . . . because they just about duplicate that capacity. They appear to shoot in fine fashion, but they make necessary the purchase of forming dies . . . and they do get you into the body taper area of the case . . . and this seemingly brings back some of the case forming problems of the 1970s, when we were mixing 6BR cases out of the Remington "basic" case. To say nothing of the problems of forming .219 Donaldson Wasp brass back in the 1947-1955 era . . . a prime reason that so many of the shooters of that era were only too glad to climb on the .222 bandwagon . . . no case forming hassles.

From what I've seen, many shooters that have "tried" the BR cartridge hardly gave it a fair shake . . . they hung a BR barrel on an old 700 action that had been lying about their shop. These same shooters would not dream of venturing forth with a PPC rifle unless it was on a top quality custom actioned rifle that took a top level gunsmith all day and night to chamber. Try giving the BR gun the same benefit, and just see if the accuracy level attained does not pick up right impressively!

Two gunsmiths that I have dealt with, who like and appreciate the cartridge, and who are not going to give you negative vibes from the start ("it's your money . . . but I think you're making a big mistake . . .") are Wally Hart, of R.W. Hart and Son, Inc. (a PS advertiser), and Fred Hasecuster (Route 5, Box 374, Shelbyville, Ind. 46176). I think it's important . . . from the viewpoint of starting with an optimistic and upbeat approach to hitting the match circuit with a BR rifle . . . that your gunsmith have an attitude (that rubs off on you) of . . . "this gun will shoot alongside any gun on the line if you hold up your end of the bargain". When you're fighting an uphill, outnumbered battle . . . you gotta have confidence, and determination!

To sum up my thoughts here . . . I'm not saying that I have any personal grudge against the PPC cartridge. It's been king of the benchrest hill for 15 years now (1975-1990). The PPC is not a bad cartridge . . . AND neither is the BR. A well set up BR, properly gunsmithed, WILL shoot with the PPC. You can confirm that, yourself, if you will give it a fair try.

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1-3/8″ square 6mm centerfire	4.00/500
1-3/4″ square 6mm thru 30 caliber	5.00/500
2″ round 30 thru 38 caliber	5.50/500
2-1/4″ square 38 thru 45 pistol	8.00/500
Brushes, brass core with bronze bristles - .22 RF, .22 CF, 6mm, .25, .264, 7mm, .30, .338, .375, & .45 rifle; and .22, .38 & .45 pistol	$1.00 ea., $9.25/dozen
Bore Mops, brass core - .22, .24/27, .30/35, .38 & .45	$1.00 ea., $9.00/dozen

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Lifetime Primer Pocket Cleaner, large or small	12.00
Match Prep Primer Pocket Uniformer, carbide - small rifle/pistol or large rifle	22.00

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REM 600, Short 700 or 722 Single Shot Adapter - specify with or without tip-up (.222, PPC size requires tip-up)	6.00
REM 700 or 721 Single Shot Adapter	6.00
REM 700, 721, 722 Bolt Shroud, aluminum	11.50
hard anodized, black	13.00
Bullet Puller, plier type (not for crimped-in bullets)	
.22 & 6mm	12.50
.22, 6mm & .308	13.50
Barrel Vise for switch barrel rifle	36.00
Loading Port Wrench for above Remington, Shilen and most Mausers; Hall or Stolle (call for avail.)	32.00
Mainspring Changing Tool	11.50

SOLVENTS & OILS

Accubore, 4 oz.	5.95
Hoppes #9, 2 oz.	1.75
Hoppes Bench Rest, 4 oz.	5.50
Hoppes Bench Rest, 16 oz.	14.75

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Pro-Shot Copper Solvent, 4 oz.	$ 5.50
Pro-Shot Copper Solvent, 16 oz.	16.00
Shooters Choice, 2 oz., hand dropper bottle	3.10
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Shooters Choice, 16 oz.	13.75
Shooters Choice Rust Preventative Spray	2.85
Sweets 7.62, 8 oz.	6.50

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Replacement springs for weakened spring, provide approx. 15% extra power. Recommend gunsmith replacement.

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Remington 37	7.20
Remington 540 & 580 series	7.20
Winchester 52, all series	7.20

Blitzschnell precision speedlock, ready for installation.

Anschutz 1800/1900 - 2 spring	8.95
Hall benchrest	7.20
Remington 700 short, 722	7.20
Remington 600-XP100	7.20
Winchester 70, all series & cal. except .22 Hornet	7.20

BENCHREST ITEMS

Acra-Gel	9.25
Acra-Gel with aluminum filler	12.50
Micro-Bed	8.00
Bushnell Bore Sighter	53.95
Adjustable Arbor for Bushnell Bore Sighter - specify .22-.270 or 7mm-.35	12.95
Bushnell Rings with windage	12.95
Chapman Screwdriver Kit	22.95
Loctite	6.50
Ear Plugs	3/1.00
K&M Flash Hole Uniformer, standard or PPC	9.50
Lee Auto-Prime, 2 trays	13.75
Shell Holder for Lee Auto-Prime - specify cart.	2.75
Redding 3BR Powder Measure	67.50
Shilen 2 oz. Trigger	87.95
Mirage Shade, mylar	2.95
7BR REM cases	6.20/20
6 PPC Sako USA	.81 ea.
Federal Nickel .222 Cases	6.75
Federal Nickel .308 Cases	8.50

Brass available in other calibers at discount prices — please call.

Federal 205M, 210M	$21.50/1000
Remington 7½, CCI BR-2, BR-4 primers	$18.95/1000

ACCURACY WILDCATS CASE SELECTION

JOHN J. GAMMUTO

On July 14th, at the Cline Deere Memorial Match in Fairfield, Ohio, I proved to myself and fellow competitors that a wildcat version of the 7 BR Remington cartridge deserves to be ranked among the most accurate. If you recall, it was only a few issues ago, in an article entitled "Comments on PPC Alternatives" that I stated, "I am looking forward to a very good year. My Talldog chambered by Fred Hasecuster is shooting better than any PPC I've ever owned..." A varmint class .1954″ 200 yard aggregate score should be all the proof you require.

For those interested in the particulars, the rifle weighed in under 10.5 pounds and made use of the following components:

Action: CPS (ALV)
Barrel: Hart 1:14 twist
Chamber: 6mm Talldog (7 BR Rem case necked down and shortened .085″) chambered by Hasecuster
Stock: Lee Six thumbhole / glue-in by Meredith
Trigger: Jewell
Scope: Leupold 36X
Dies: Custom Products
Bullet: Estes, 68 grain, FB, J4 jackets
Powder: H-322, 28.5 grains
Primers: Remington 7½

The 7mm BR Remington cartridge, introduced in mid-1986, captured the attention of a small, but optimistic, group of experimenters within the American benchrest community. When it was no longer necessary to form this brass from .308 Winchester, or a refined version of the .308 Remington later marketed under the name of 7mm bench rest, it began to appear on tournament registration forms around the country.

The PPC was the cartridge to beat. Very few people shot anything else, but there were those who felt maybe, just maybe, the BR could be made to shoot. When the supply and demand problems associated with Sako's .220 Russian cases became more than a minor irritation to some, Remington capitalized on the situation by introducing reasonably priced, quality 7mm BR Remington brass.

Benchrest shooters interested in the BR cartridge were not particularly fond of the 7mm hole at the end of the neck and were quite vocal about it. This was primarily due to the fact that match grade jackets/bullets were not available. So they began to "tinker" with what would prove to be excellent brass. They pushed shoulders back and changed angles, reduced neck diameters, modified body tapers, etc... it wasn't until a few brave souls registered some respectable scores that people began to take note of the wildcat versions of the 7 BR.

I can imagine how many shooters dropped their copy of the magazine on the floor after reading the introductory paragraph of this article. "Gammuto, what, no way, I've seen him shoot!" I've received a lot of calls from people that know me, SOME offered congratulations, MOST wanted to know how this could have happened, ALL want to know what I'm doing differently these days.

Knowing how obsessed benchresters are with perceived advantage relative to components and techniques, I'd bet cash money that Fred Hasecuster's phone has been busy lately.

All of my experience, until recently, has been with Remington's 7 BR brass, purchased in bulk from Midway Arms, Columbia, Missouri. Considering the large quantity of brass I've purchased over the years, it's amazing how consistent it has been. I have not been disappointed with any of it.

When Remington's plans to produce 6 BR brass became known, it created even more interest in the BR cartridge. They were making it even easier for 6mm enthusiasts to move in the direction of the BR cartridge. Remington seemingly had its ear to the ground and responded to the needs of accuracy-minded clan. Why they didn't market a shortened up version that paralleled the physical and ballistic characteristics of the PPC, I'll never understand.

Having plenty of 7 BR brass on hand, and

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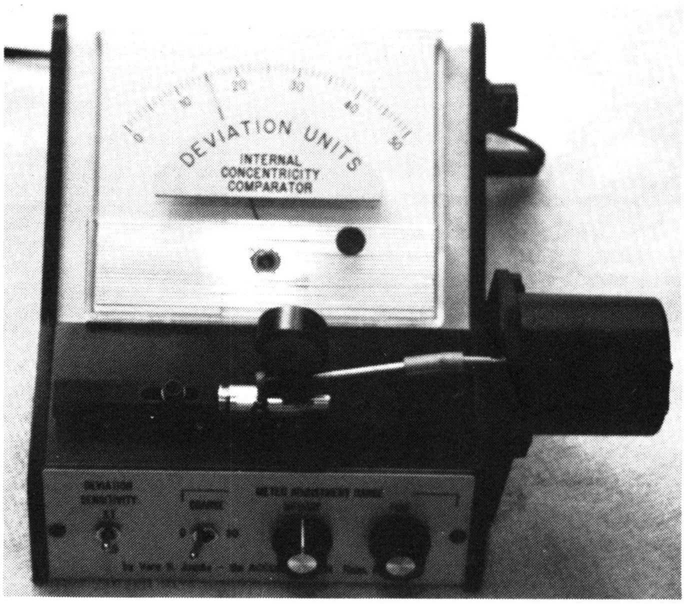

Accuracy Den ICC Unit designed and built by V. Juenke.

being more than satisfied with its quality, I didn't immediately order 5000 pieces of 6 BR brass. I opted to take the more conservative approach and adopted a wait-and-see attitude, FOR ONCE. Besides, I would still have to push the shoulder back .085″. Reducing the neck is not that big a deal. It wasn't very long before rumors characterized the new brass as unacceptable. Being a curious fellow, I thought I'd find out for myself. I think you'll find my approach in making this determination different, if not interesting.

I used 40 cases from my latest shipment of 7 BR brass and an equal number of new 6 BR cases for the comparison. Both sets of cases were randomly selected and numbered 1 thru 40. For the purposes of the test, I used one of Vern Juenke's Internal Concentricity Comparitors (see photo), and an RCBS 10-10 scale, accurate to 0.1 of a grain.

The first thing I did was visually inspect the cases for physical defects, such as out-of-center flash holes and/or dented necks and case bodies. No such defects were discovered in either batch. The cases were then tested on Juenke's ICC unit and weighed. The data was written directly on each case with a marking pen and then entered into the computer, as seen in Exhibit 1.

If you are not familiar with Vern Juenke's ICC unit you should know that it utilizes a state-of-the-art metal thickness detector and is now equipped with a motor drive to eliminate the tedious task of rotating cases by hand. With a little practice you can easily test 100 cases per hour. The ICC unit is a laboratory quality instrument that is powered by a standard 115 VAC, 50/60 cycle transformer.

Col. Hornbeck and Mr. Juenke have both written articles on the theory and performance of this instrument in previous issues of Precision Shooting (See March & April '85 and August '88 issues). In my opinion, the ICC unit has elevated the case selection procedure to a more scientific level. The time saving feature is also a plus.

Vern in his descriptive literature states, "The best time to check cases is after fireforming and before resizing. Usable information can be obtained on unfired cases." The point being that any minor dents that may have occurred at the factory during the final tumble wash operation, or packing and distribution, will show up on the meter. After fireforming, the brass expands to the outer limits of the chamber and irons out many of these defects. I agree with Vern on this point, but I have also found, through experimentation, that the improvement is only in the neighborhood of 3 to 5% with good cases. Knowing this, I save a lot of

Continued on next page

CARTRIDGE COMPARISON

7 BR REMINGTON			6 BR REMINGTON		
CASE NO.	WEIGHT IN GRAINS	ICC DEVIATION UNITS	CASE NO.	WEIGHT IN GRAINS	ICC DEVIATION UNITS
1	128.5	7	1	128.6	10
2	129.4	4	2	128.6	10
3	129.3	4	3	128.0	12
4	129.4	5	4	128.5	9
5	128.8	4	5	128.6	4
6	128.5	6	6	128.4	18
7	128.6	5	7	128.0	10
8	129.0	5	8	128.2	12
9	129.0	4	9	128.5	15
10	129.1	7	10	129.3	12
11	128.8	8	11	128.5	12
12	128.9	5	12	128.5	15
13	129.5	5	13	128.5	10
14	128.7	4	14	128.9	20
15	129.5	8	15	129.3	10
16	129.4	5	16	128.4	18
17	129.3	8	17	128.5	15
18	129.1	6	18	128.6	12
19	128.9	5	19	128.4	18
20	129.3	7	20	128.0	15
21	129.5	5	21	128.2	10
22	129.5	8	22	128.5	12
23	129.5	6	23	129.3	15
24	129.4	8	24	128.5	20
25	129.3	5	25	128.9	15
26	129.1	7	26	128.5	12
27	128.9	7	27	128.6	12
28	128.6	6	28	128.4	15
29	129.0	5	29	128.0	10
30	129.0	5	30	128.2	17
31	129.1	8	31	128.5	15
32	128.5	7	32	129.3	20
33	128.9	6	33	128.2	6
34	129.5	8	34	128.5	12
35	129.1	6	35	129.3	12
36	128.9	7	36	128.5	15
37	129.4	4	37	128.9	10
38	129.3	6	38	128.5	20
39	129.1	6	39	129.3	16
40	129.2	7	40	128.4	10
AVG	129.1	6.0	AVG	128.6	13.3
STD	.3	1.3	STD	.4	3.8

AVG = AVERAGE   STD = STANDARD DEVIATION

- EXHIBIT 1 -

TRIGGER TUNING

All Remington centerfire bolt actions except Model 788. Set to specified weight-of-pull, one pound minimum, no creep. Send trigger assembly only. Cost $25.

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BR BRASS

Continued

time and material by "pretesting" them prior to fireforming. I'll test them again after I fire them 4 or 5 times to confirm final loading block position.

Many shooters today feel that case weight relative to case capacity is the primary consideration when selecting match cases. This is true, but wall thickness is a very very close second. I would not select match cases using only weight or wall thickness as the sole criteria for making final determinations. Charts 1A and 1B bear me out on this point. The two charts graphically depict the results of a random selection of cases. As you can see, "out of the box" they are quite erratic with respect to weight and wall thickness, although the 7 BR does have the edge.

The next step in my procedure is what I refer to as the "electronic shuffle." The data, as mentioned earlier, has already been entered into the computer. What I do now is tell the computer to arrange the data by weight and deviation units (wall thickness). In Exhibit 2 you will see the result of this electronic shuffle. You may also note that I have added a column heading entitled "Loading Block Position." This column is where I enter my best guess as to where the cartridge should be placed in my loading block (see Exhibit 3). Of course, any final determination will solely be based on individual car-

Continued on page 30

REMINGTON BR CASE WEIGHT COMPARISON

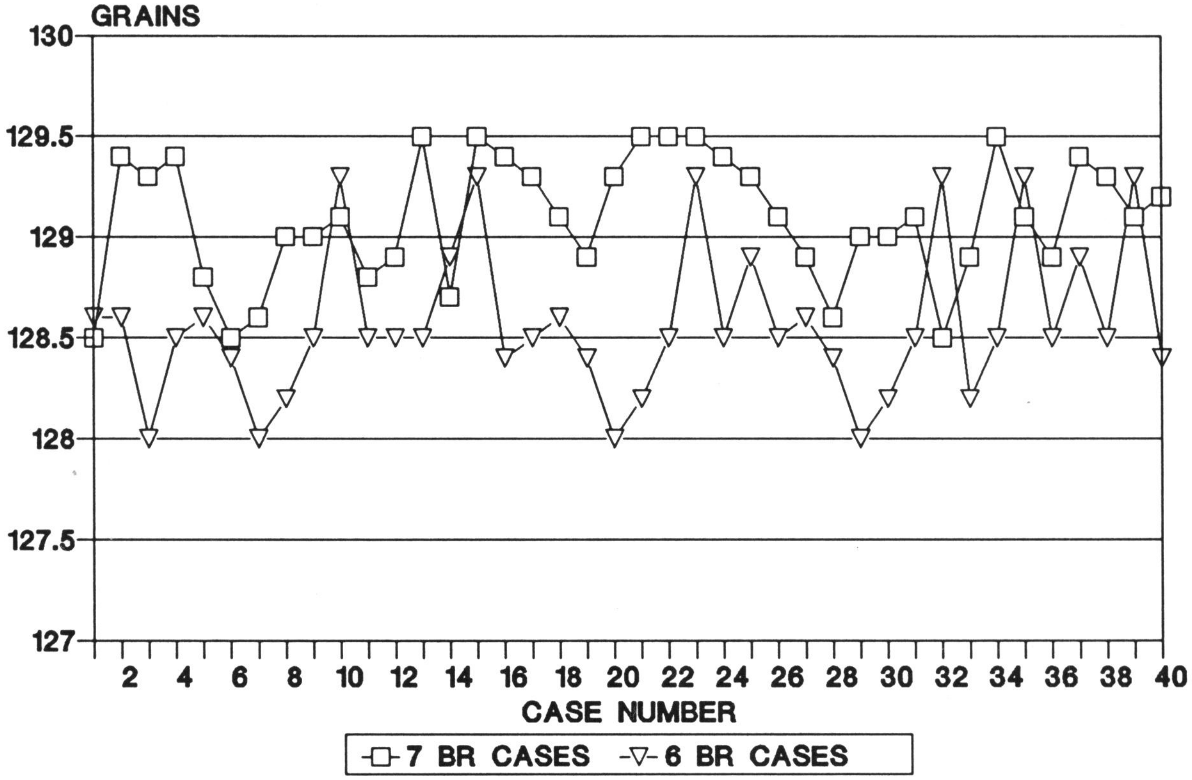

CHART 1A

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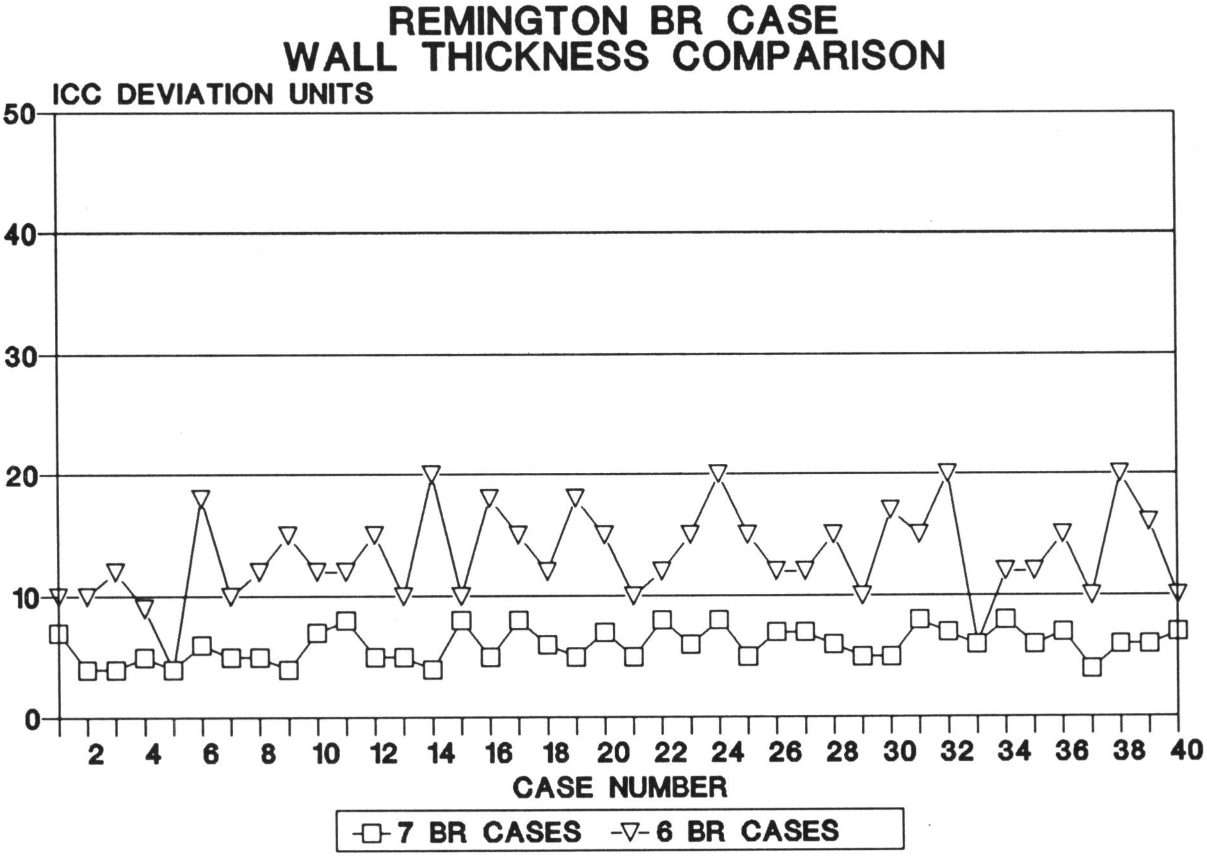

CHART 1B

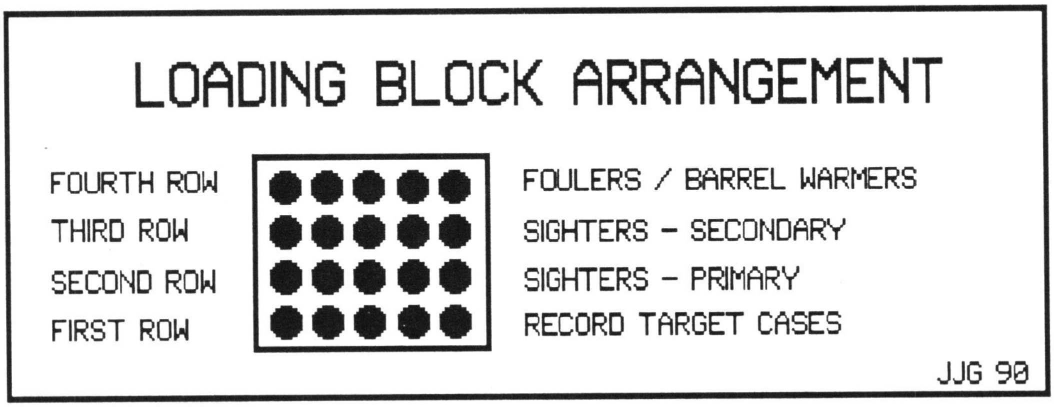
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EXHIBIT 3

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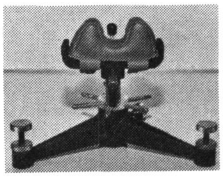

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REMINGTON BR CASE
SORTED BY WEIGHT/DEVIATION UNIT
20 MATCH CASES

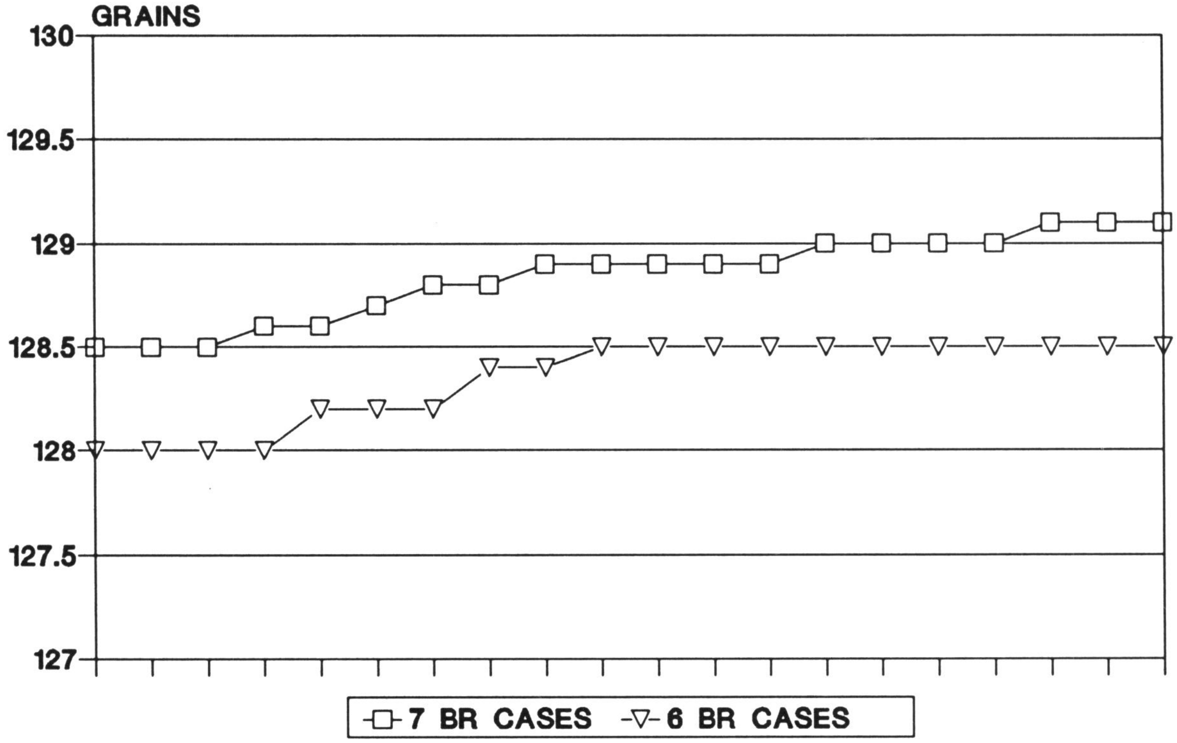

CHART 2A

BR BRASS

Continued

tridge performance, but I have not found final positions to be very much different from initial placement using this method.

Loading block position, or row placement, is a "human computer" decision I make based on knowns, exact or similar case weight, and wall thickness variations that fall within my own "acceptable" criteria. In Exhibit 2 you will see, on the 6 BR side, that I have "rejected" some cases that did not fall within my acceptable range with respect to ICC deviation units. Anything over 15 deviation units was rejected. This represents approximately .001″ of wall thickness variation in a case of this size. A .222 cartridge being tested would have a slightly higher acceptable limit with respect to deviation units, due to its smaller diameter and relative closeness to the sensing head. Juenke, and others, believe that 20 is about right for the .222 family of cartridges. Anything over that should be suspect.

It should also be noted that I do not believe that every case in the loading block MUST weigh the same. A few tenths here or there is not going to show up on the target. I would PREFER them to all weigh the same, but it isn't absolutely necessary. 2-3 tenths of a grain is an acceptable limit. This is especially true of the back two rows of my loading block where the "second sighters" and "foulers" are to be found.

The really interesting data can be found at the bottom of Exhibit 1. As you can see the 7 BR brass, on average, weighs a half grain more than the 6 BR brass and has a significant edge with respect to wall thickness variation. This is also true of the standard deviation numbers. In Exhibit 2 the post "electronic shuffle" summary represents the top 20 match cases only, but there is a correlation between the two exhibits.

Charts 2A & 2B graph the top 20 cases of each test group. As you can see there is a dramatic difference between Charts 1A & B (the first 20 cases) and 2A & B. Most of the "peaks and valleys" have been smoothed out.

You may also have noted in Exhibit 2 that every case on the 7 BR side was determined to be of match quality. Two complete loading blocks were filled with what I consider to be match brass. This was not true of the 6 BR cartridges.

Continued on next page

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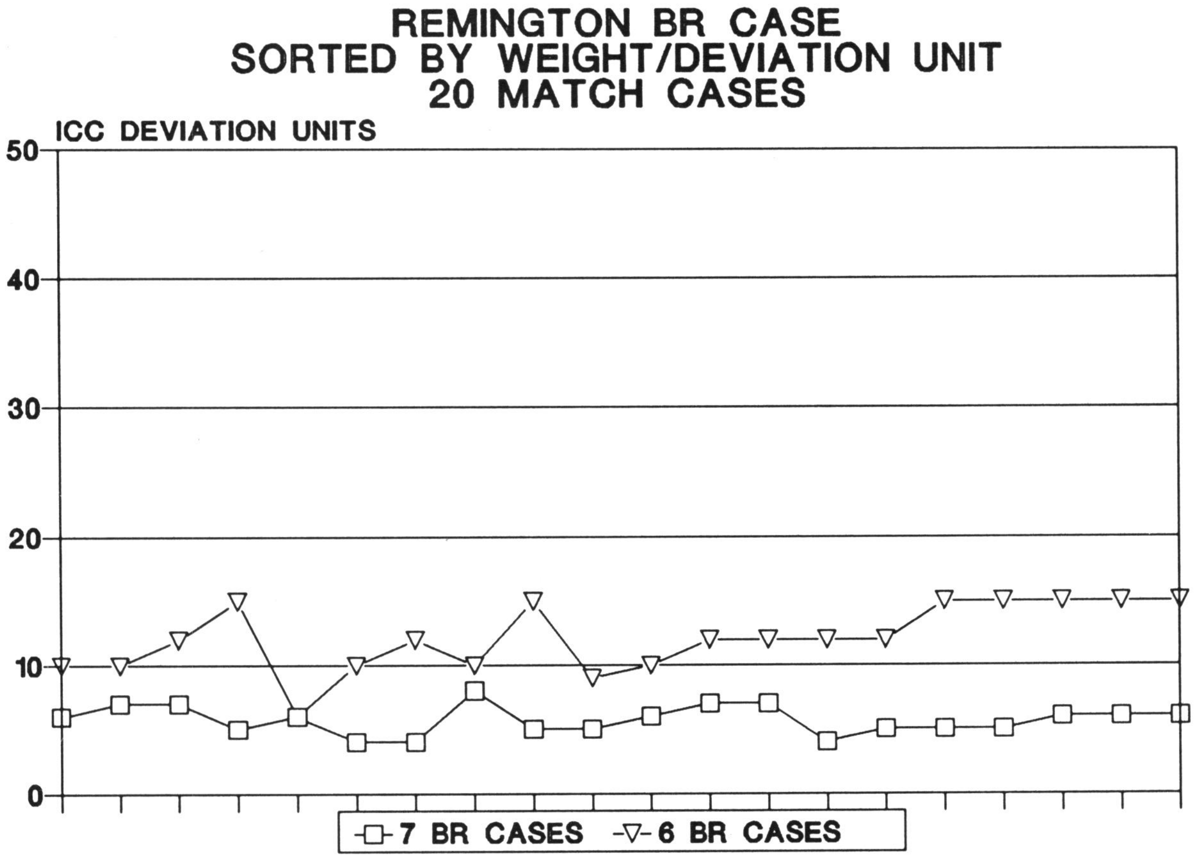

CHART 2B

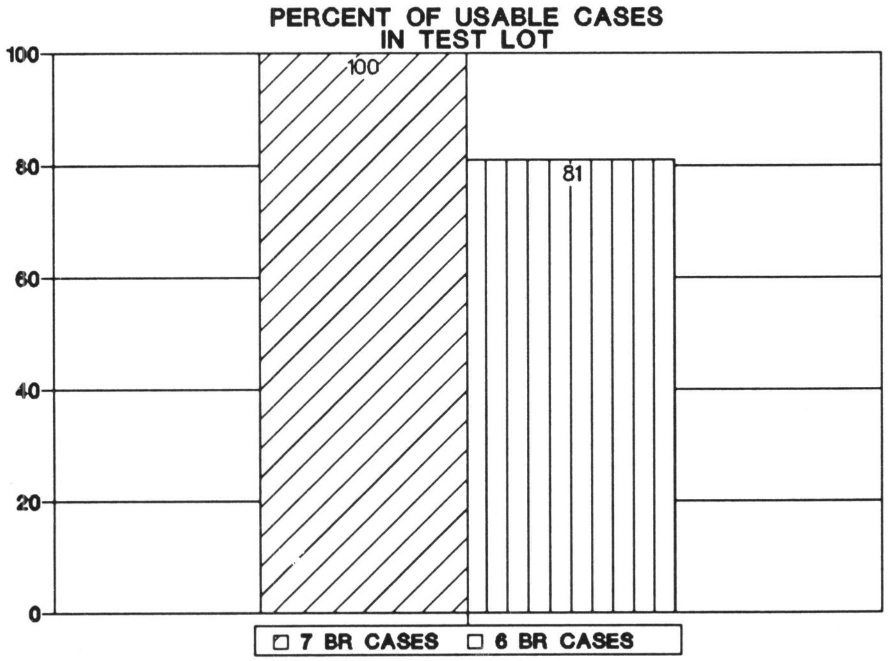

CHART 3

BR BRASS

Continued

Chart 3 clearly indicates that 7 BR brass, at least at this time, is a better buy even though 7mm BR brass is selling for $30/100 and 6mm BR brass (primed) is selling for $28.50/100.

John J. Gammuto

Continued on next page

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CASES SORTED BY WEIGHT AND WALL UNIFORMITY

7 BR REMINGTON				6 BR REMINGTON			
CASE NO.	WEIGHT IN GRAINS	ICC DEVIATION UNITS	LOADING BLOCK POSITION	CASE NO.	WEIGHT IN GRAINS	ICC DEVIATION UNITS	LOADING BLOCK POSITION
6	128.5	6	1A	7	128.0	10	1
1	128.5	7	1A	29	128.0	10	1
32	128.5	7	1A	3	128.0	12	1
7	128.6	5	1A	20	128.0	15	1
28	128.6	6	1A	33	128.2	6	1
14	128.7	4	2A	21	128.2	10	2
5	128.8	4	2A	8	128.2	12	2
11	128.8	8	2A	30	128.2	17	REJECT
12	128.9	5	2A	40	128.4	10	2
19	128.9	5	2A	28	128.4	15	2
33	128.9	6	3A	6	128.4	18	REJECT
27	128.9	7	3A	16	128.4	18	REJECT
36	128.9	7	3A	19	128.4	18	REJECT
9	129.0	4	3A	4	128.5	9	2
8	129.0	5	3A	13	128.5	10	3
29	129.0	5	4A	11	128.5	12	3
30	129.0	5	4A	22	128.5	12	3
18	129.1	6	4A	26	128.5	12	3
35	129.1	6	4A	34	128.5	12	3
39	129.1	6	4A	9	128.5	15	4
10	129.1	7	1B	12	128.5	15	4
26	129.1	7	1B	17	128.5	15	4
31	129.1	8	1B	31	128.5	15	4
40	129.2	7	1B	36	128.5	15	4
3	129.3	4	1B	24	128.5	20	REJECT
25	129.3	5	2B	38	128.6	20	REJECT
38	129.3	6	2B	5	128.6	4	SPARE
20	129.3	7	2B	1	128.6	10	SPARE
17	129.3	8	2B	2	128.6	10	SPARE
2	129.4	4	2B	18	128.6	12	SPARE
37	129.4	4	3B	27	128.9	12	SPARE
4	129.4	5	3B	37	128.9	10	SPARE
16	129.4	5	3B	25	128.9	15	SPARE
24	129.4	8	3B	14	129.3	20	REJECT
13	129.5	5	3B	15	129.3	10	SPARE
21	129.5	5	4B	10	129.3	12	SPARE
23	129.5	6	4B	35	129.3	12	SPARE
15	129.5	8	4B	23	129.3	15	SPARE
22	129.5	8	4B	39	129.3	16	REJECT
34	129.5	8	4B	32	129.3	20	REJECT
*AVG	128.8	5.7		*AVG	128.3	12.1	
*STD	.2	1.1		*STD	.2	2.5	

*AVG = AVERAGE *STD = STANDARD DEVIATION (TOP 20 CASES ONLY)

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OFFICIAL SCREAMER NEWS

It appears as if the first official screamer groups in the country in 1990 were fired at the Florida State Championships, on February 17th.

RON HOEHN, of Florissant, Missouri just made it with an .098 100 yard group in the light varmint class. Mr. Hoehn shot a 6PPC, Stolle action, Lilja barrel, Leupold 36X, Six stock, 27.5 grains of T322 with his own 68 grain bullets. The gun was smithed by the shooter, and stocked by Lee Six.

TIM CANTWELL, of St. Charles, Missouri, at the same match, in the light varmint class, shot a nice .069 group. He shot a 6x40, Stolle action, Hart barrel, Leupold 36X scope, with little info available on the load. Speedy Gonzalez was the gunsmith and stocker. (As an addendum, we find, from later communication that the load was 28.5 grains of T32 with 68 grain SG bullets, and Federal primers.

JAMES SENTELL, of Stevenson, Alabama, on March 25th at Fayette, Alabama, in the light varmint class at 100 yards put an .093 group down range. He used a 6PPC, Hall action, Schneider barrel, Leupold 36X scope, 27.0 grains of T32 with 66 grain Messer bullets. James Messer was also the gunsmith and stocker.

RAYMOND BRUNET, of Harvey, Louisiana, on March 11th shot a nice .056 group at Lafayette, La., in the heavy varmint class. He used a 6PPC, Hall action, Lilja barrel, Leupold 36X, 28.0 grains of 322 with Euber 68 grain bullets. Dale Hutcherson was the gunsmith, and Raymond did his own stocking work.

DON NIELSON, of Canoga Park, California shot an .094 group in the light varmint class on March 17th at Visalia. Don fired a 6PPC, Teddy action, Hart barrel, Leupold 36X scope, 29.0 grains of GI 322 with Berger 68 grain bullets and Federal primers. He did his own gunsmithing, on a Lowell Frei stocked rifle.

GARY OCOCK, of Scottsdale, Arizona shot a rather small .058 group at the Phoenix range on April 8th in the heavy varmint class. Gary shot a 6PPC, Wichita action, HS Precision barrel, Leupold 36X scope, 27.2 grains of T32 with his own 65 grain bullets and Federal primers. Chuck Miller was the gunsmith, and Gary Ocock the stocker.

TOM PERIA, of Saranac Lake, New York shot an .095 group in the heavy varmint class at Dunham's Bay on April 29th. Tom fired a 6PPC, Wichita action, Hart barrel, Leupold 36X scope, 28.0 grains of GI 322 with Euber 68 grain bullets and Federal primers. Norm Dixon was both gunsmith and stocker.

LARRY ESTES of Pittsburgh, Pa. shot an .060 group in the heavy varmint class at Fairchance on April 21st. He shot a 6PPC, Sleeved XP100 action, Hart barrel, Premier 40X scope, 28.5 grains of GI 322 with his own 68 grain bullets and Federal primers. Fred Hasecuster was the smith, and Charles Dalessandro the stocker.

HAROLD MORGAN, of Lexington, South Carolina, at the Brunswick, Virginia range, on April 22nd shot an .095 group in the light varmint class. He fired a 6PPC, Stolle action, Hart barrel, Leupold 36X scope, 27.5 grains of T32 with his own 68 grain bullets and Federal primers. James Messer was the gunsmith and stocker.

DAVE SAITO, of Hayward, California, shot an .070 group in the heavy varmint class at Visalia on April 22nd. He employed a 6x46 Improved, Sleeved Remington 700 action, Shilen 6 groove barrel, B&L 36X scope. He used a load of 24.5 grains of T32, 62 grain GTB bullets, and Federal primers. MCR was the gunsmith, and David did his own stock work.

TONY BOYER, of Keezletown, Virginia, at the Fairchance range on April 21st and 22nd, in the light varmint class accomplished the unusual . . . a screamer at 100 yards (.091), and a screamer at 200 yards (.186). The Pride of Keezletown shot a 6PPC, Teddy action, Shilen barrel, Leupold 36X scope, 28.5 grains of T322 with Euber 68 grain bullets and Federal primers. Fred Hasecuster was the gunsmith, and Lowell Frei the stocker.

AL PHILLIPS, of Manitoba, Canada shot a 200 yard group of .171 measurement on April 29th at the Selkirk range. Mr. Phillips shot a .22 Waldog, with a sleeved Remington 700 action and a McMillan barrel, and an unspecified scope. Load was 24.0 grains of H322 with 51 grain PCBC bullets and Federal primers. The gunsmith was Grant Schick, and the stocker was Al Phillips.

RALPH COUNCIL, of Tomball, Texas shot a .098 sporter group at the Tomball range on May 12th. Ralph shot a 6PPC, Wichita action, Hart barrel, Lyman-Siebert scope, and 27.7 grains of GI 322 with his own 68 grain 9S bullets and Federal primers. Ralph was also the gunsmith and the stocker.

MATT RUE of Enon, Ohio shot a nice .159 200 yard group in the heavy varmint class at this year's Super Shoot. Mr. Rue used a

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6PPC, Panda action, Schneider barrel, Leupold 36X scope, and a light load of 25.5 grains of T32 with Hotenstein 68 grain bullets and Federal primers. Fred Hasecuster was the gunsmith.

DUNCAN DAUGHERTY, of Huntington, West Virginia, fired a 10 shot unlimited class 100 yard target of .148 dimensions on June 16th, at the Fairchance range. Duncan used a Bill Hall rail gun in 6PPC chambering, Hall action, Hart barrel, 40X Premier scope, 28.0 grains of H322 with 68 grain Berger bullets and Federal primers. Harold Broughton was the gunsmith.

ROGER AMOS, of Washington, West Virginia went one better at that same Fairchance unlimited class shoot, with a 10 shot 100 yard group of .135 dimensions. Because things are more fun when you do them the hard way, Roger did this with his heavy varmint class rifle, chambered for the ... 22BR. The action was a Hart 1A, Leupold-Premier 30X50 variable (set on 50 at the time), and we understand that the as yet unfinished rifle had the action merely bolted in (haven't had time to do a glue-in yet). Berger 52 grain bullets were used, at 3300 feet per second, via 28.0 grains of GI 322. Wally Hart was the gunsmith. As a final comment . . . nine of the shots were in .090! Mr. Amos relates that it was most difficult to squeeze the trigger for the last shot. We can't understand why.

WAYNE LINSENBACH, of New Bloomfield, Pa. shot a 10 shot 1,000 yard group of 7.125 measurement at the Williamsport range on June 17th. Wayne shot a .308 Baer, Remington action, Hart barrel, 20X Unertl scope, and 82.5 grains of H1000 with Sierra 220 grain match bullets. Bruce Baer was the gunsmith and stocker.

TONY BOYER of Keezletown, Virginia came up with an .086 group in the heavy varmint class at the June 24th match at Roanoke, Virginia. He shot a 6PPC, Teddy action, Shilen barrel, Leupold 36X scope, 28.5 grains of T322 with Euber 68 grain bullets and Federal primers. Myles Hollister was the gunsmith, and Lowell Frei the stocker.

RANDY LEWIS, of Lenoir, North Carolina, shot an .096 target in the heavy varmint class at the Kettlefoot range (Bristol, Tennessee) on July 8th. He fired a 6PPC, Hall "M" action, Hart barrel, Leupold 36X scope, 27.6 grains of H322 with Watson 68 grain bullets and Federal primers. James Coffey was the gunsmith and stocker.

JIM BOETTCHER, of Enon, Ohio shot an .085 group in the light varmint class at the Fairchance range on July 21st. He used a 6PPC, Stolle action, Shilen barrel, Leupold 36X scope, 26.6 grains of T322 with Watson 68 grain flat base bullets and Federal primers. Fred Hasecuster was the gunsmith, and Tom Meredith was the stocker.

BOB FRITZ, of Helena, Montana shot an .098 group in the heavy varmint class at the Tacoma range on July 21st. Interestingly enough, he didn't even have the small group of the relay . . . but we all have our days when nothing goes right. Bob shot a .22 Waldog, Hall B action, Hart barrel, Lyman-Siebert 36X scope, 23.6 grains of BR-28 with 52 grain Berger bullets, CCI primers, stocked and smithed by Arnold Erhardt.

And finally, good reader, we close this initial report with a listing that really does not deserve to be listed with the proud accomplishments of those good and decent souls, stellar and steel-nerved marksmen all, listed above. A listing such as this, we can only conclude (with great regret), serves to dilute the honor and integrity of the otherwise august and distinguished group. However we find ourselves with no real choice in the matter . . . where else could we put the darn thing?

JOHN GAMMUTO, using a Hasecuster rail gun (you don't even have to aim a rail gun, you know . . . just squeeze the trigger ten times. Even monkeys can be trained to shoot a rail gun) at Fairfield, Ohio, on July 14th, put ten shots into a .354 200 yard group. And just had to call the editor at an ungodly hour of the morning on the next day to tell him at great length about his singular accomplishment. John, in all fairness to you, it was probably discourteous of me to fall asleep while you were describing your seventh shot, and where you were holding on the target, and what you were thinking, and why. And thank you for the faxed screamer application . . . and no, there probably will not be any groundswell demand for you to be on the PS cover this issue because of your group. Thanks for the suggestion, however.

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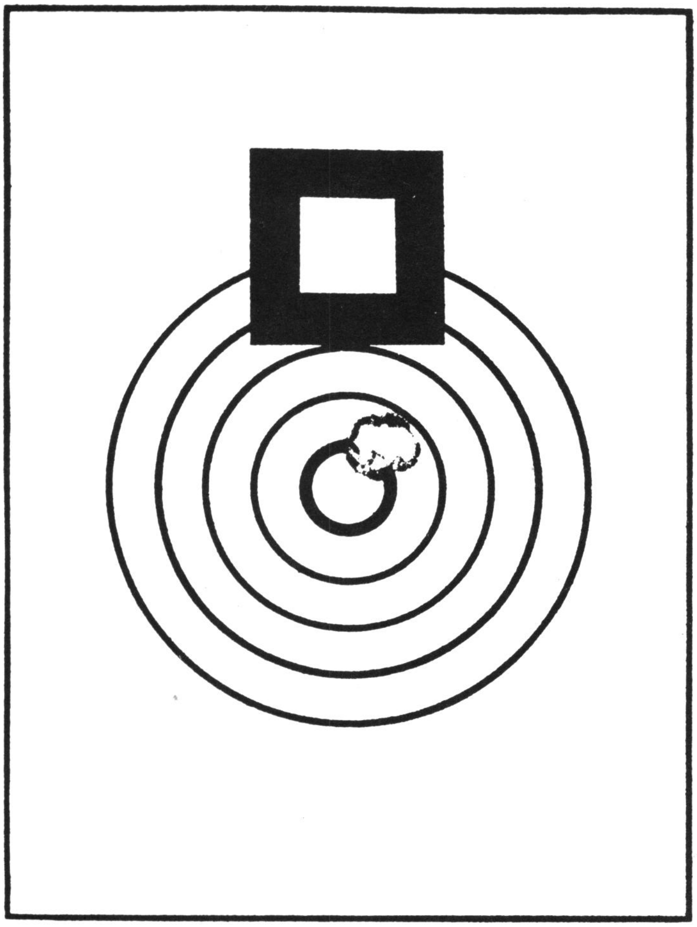
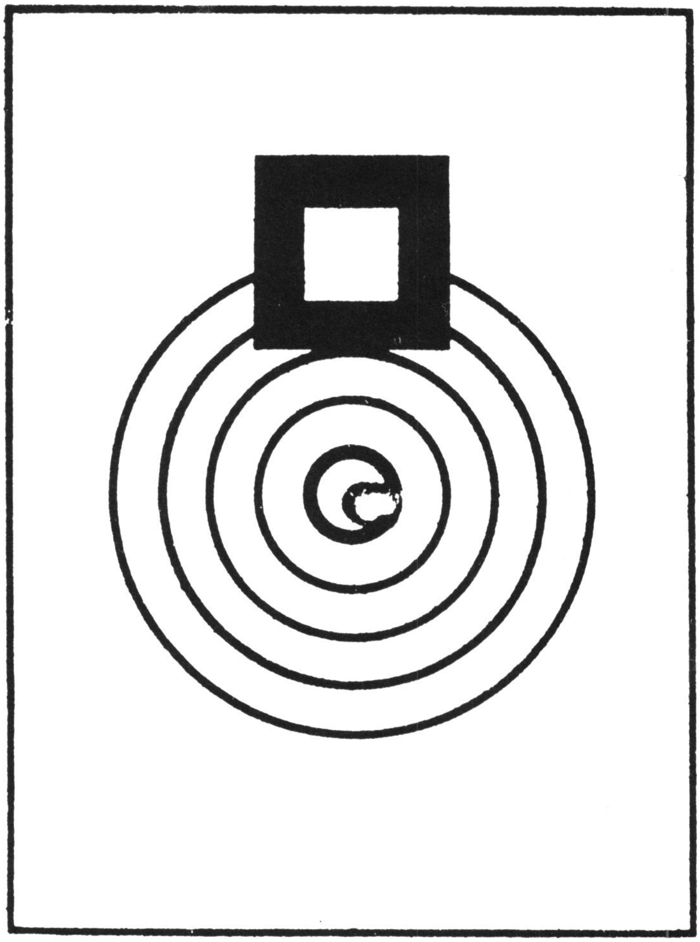
We are printing here a couple of targets that were sent to us along with official screamer applications. The .069 target is Tim Cantwell's 5 shot 100 yard light varmint class effort. The .135 target is a 10 shot 100 yard target fired by Roger Amos, who was shooting a heavy varmint class rifle in an unlimited class match. One common characteristic of both targets . . . they sure had the "vertical" under control!



.148



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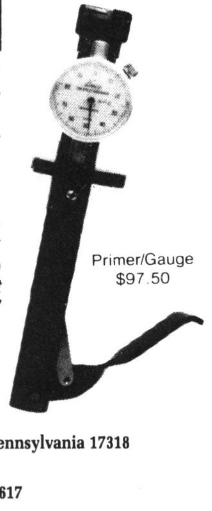

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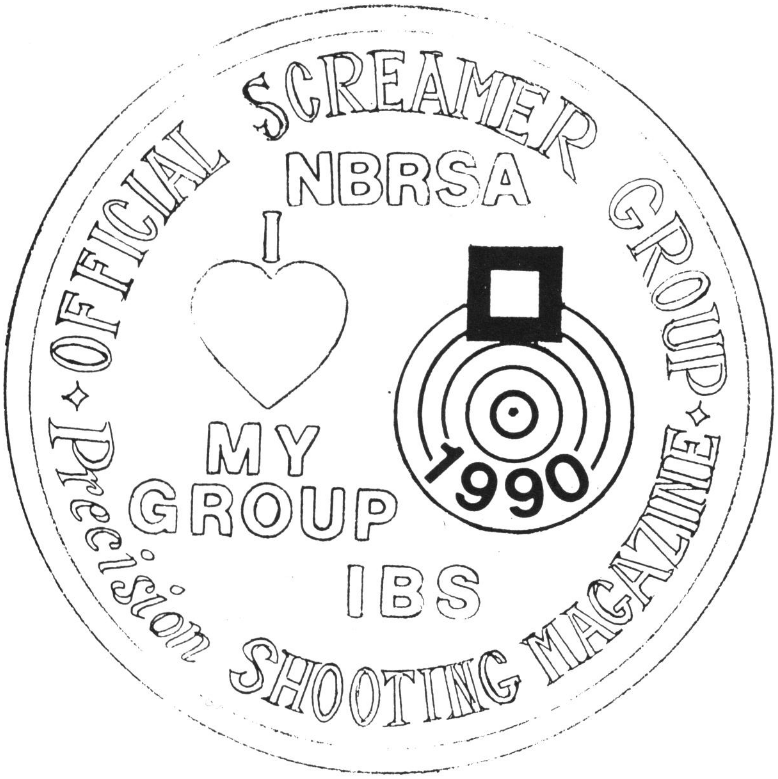
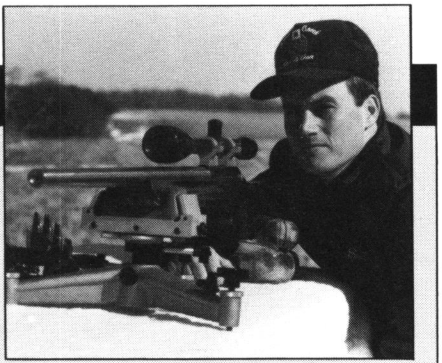


The art work for the 1990 Official Screamer patch, as designed by Peter (Rabbit) Callan.



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(Editor: A while back, one of our readers — Lawrence Rivard, of Riverbank, California — called our attention to an article in the August 1989 issue of Manufacturing Engineering on rifle barrel manufacturing. It took a bit of doing, but we have secured the author's permission, as well as the permission of Manufacturing Engineering magazine to reprint what we consider to be an interesting article).

A new technique for gun barrel machining offers lower costs and higher quality

Electrochemical Rifling of Firearm Barrels

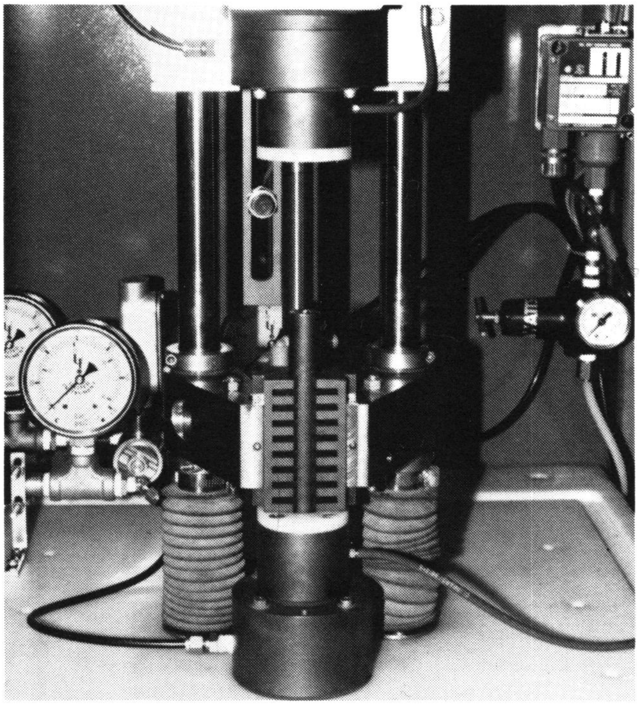
By Horst Kissel
Surftran Div., Robert Bosch Corp.
Madison Heights, MI

Machining rifle and pistol barrels has never been for the timid. The requirements are stringent. Diametric tolerances must be within 0.00039" (10 μ), and the surface finish must be better than 63 μin. (1.6 μm) to ensure accurate performance and wear resistance. The barrel must be stress-free for projectile accuracy and for the firearm's longevity. Both barrel and rifling must be optically straight at the time of manufacture and after sustained use of the firearm.

Traditional methods of machining—hammering and broaching—have produced acceptable results for decades. But inherent in both techniques are high stress-induced forces and high costs.

Hammering involves lengthy preparation of the machine and, due to the high stress induced in the barrel, requires such additional processes as straightening and stress relieving. Broaching offers lower initial capital cost but substantially higher tool costs than hammering. The tools, in turn, are subject to extreme wear and frequent breakage.

Cation Corp. (Rochester, NY) has developed a stress-free technique called electrochemical rifling (ECR) to remove metal in spiral grooves from the inside of pistol and rifle barrels. The machines use cations, which are positively charged ions that are attracted from the anode (barrel) and flow toward the cathode (tool). These ECR machines are manufactured and marketed by Surftran (Madison Heights, MI), a division of Robert Bosch Corp. (Broadview, IL).



A pistol barrel is slid over a cationic tool mounted on a manifold/fixture. A ram feeds down, delivering a positive charge to the barrel, and electrolyte spirals up through the tool's grooves. (Photo courtesy of Cation Corp.)

The cationic tool in ECR permits metal in the barrel to be dissolved electrolytically in accordance with the tool's shape, providing precise barrel groove and land geometry that is burr and stress-free. In the process, a pistol or rifle barrel is slid over the cationic tool mounted on a combination manifold/fixture. A ram feeds down, delivering a positive charge to the barrel. Electrolyte is introduced through the manifold under pressure and flows upward at high velocity, spiraling through the cationic tool's grooves.

The positive-charged barrel allows material to be removed when electrolyte is flushed between it and the negative (cathode) tool. The residue is flushed back through the manifold and then to the electrolyte storage tank, where it is clarified. After removal of the rifled barrel, the electrolytic action is stopped by washing.

The form and size of uninsulated parts of the tool-cathode correspond directly to the form and size of the barrel's grooves and lands. Depth of grooves depends on current density and cycle time.

An advantage of ECR is that it does not depend on the mechanical strength of the barrel material. This is of particular importance in military applications, where there is growing interest in rifle barrels made of such exotic alloys as titanium and stellite.

The smoother surface produced by ECR gives not only less resistance on the bullet but also provides a tighter seal between the bullet and the inside of the barrel. This is a very significant advantage for high-speed military weapons.

ECR does not depend on the mechanical strength of the barrel material

The relatively rough surface that is common with hammered or broached barrels can cause "leading." This occurs when the barrel and the projectile get so hot—from firing many rounds in an automatic weapon, for example—that the lead in the bullet actually starts to come apart. The ECR surface is so smooth that the particles of lead do not stick in the barrel but come out behind the bullet.

Fouling, an undesirable situation that occurs when some of the powder does not burn up, is also a less significant problem in a barrel that has been machined electrochemically. The smooth ECR surface simply won't allow the particles of unburned powder to stick. Instead, the unburned powder exits harmlessly behind the bullet.

The ECR process consistently produces a high-quality finish—20 µin. (0.51 µm) or better—and repeatable accuracies of ±0.0003" (0.008 mm). It can produce polygonal, octagonal, or other forms of groove. And because metal is removed by electrolytic action, the process is stress-free to the barrel. Thus ECR can be applied to barrels with very thin walls.

Additionally, there are no burrs or tool marks left on the surface. And because the process only attacks the positively charged barrel (anode), the cationic tool does not wear.

Surftran markets two ECR machines. The ECR-1000, designed for pistol barrels and shotgun chokes, is a single-station vertical machine with stationary cationic tools that can machine pistol barrels up to 12" (305 mm) long. The ECR-2000 is a single-station, horizontal NC machine for rifle and shotgun barrels. It features a traveling cationic tool and is capable of machining barrels up to 26" (660 mm) long. ■

The author expresses his thanks for technical support on this article to Dr. Alexander Vishnitsky, Cation Corp.

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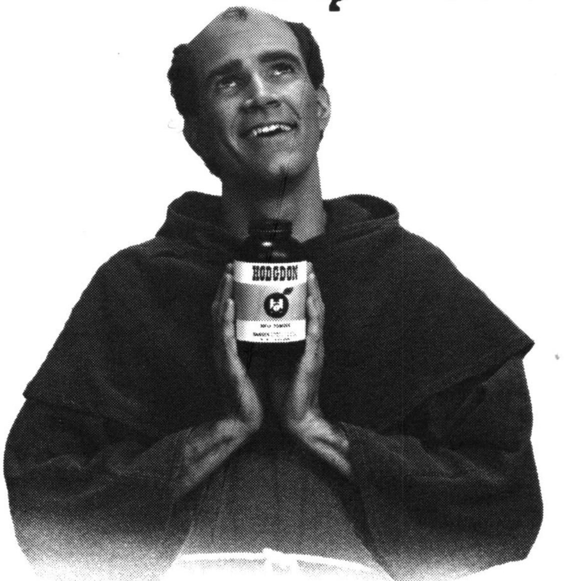

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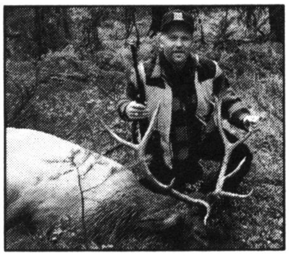

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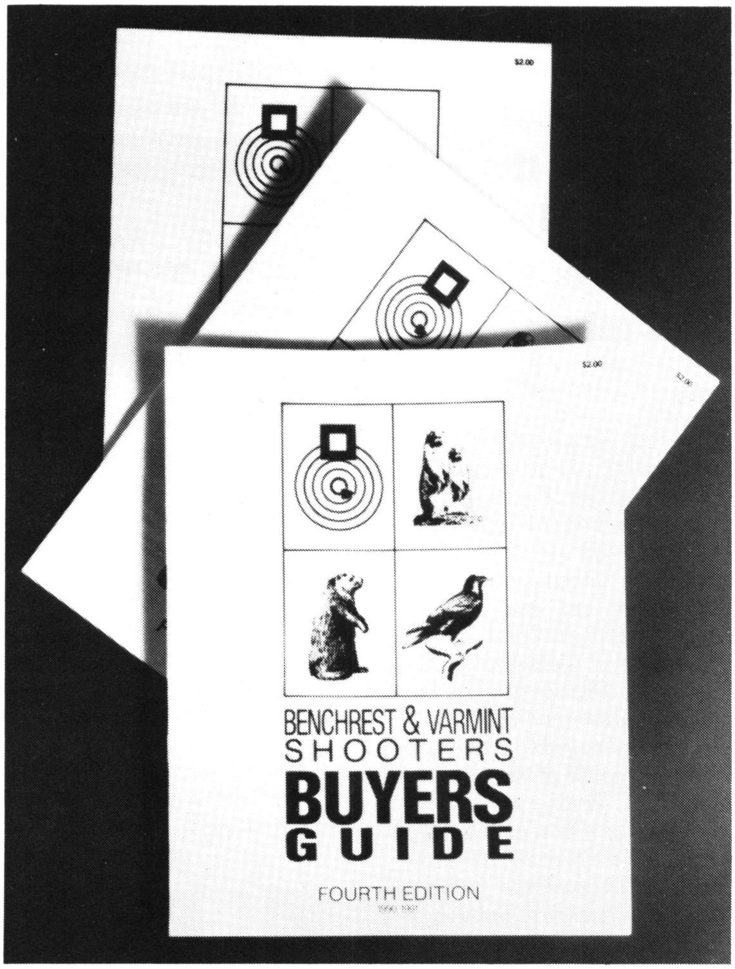

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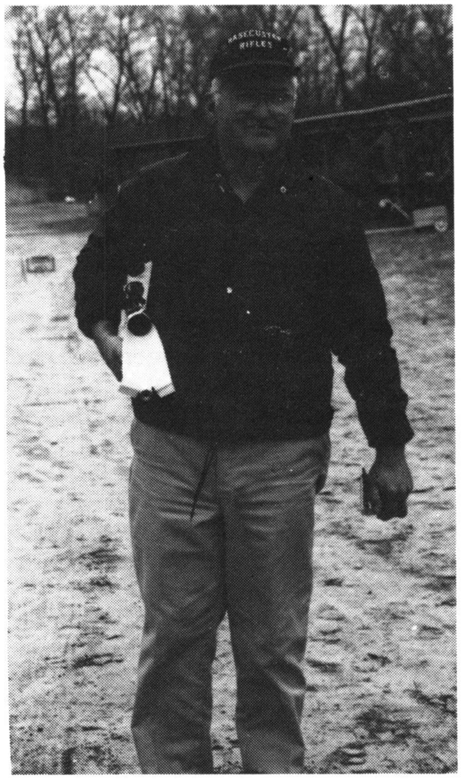
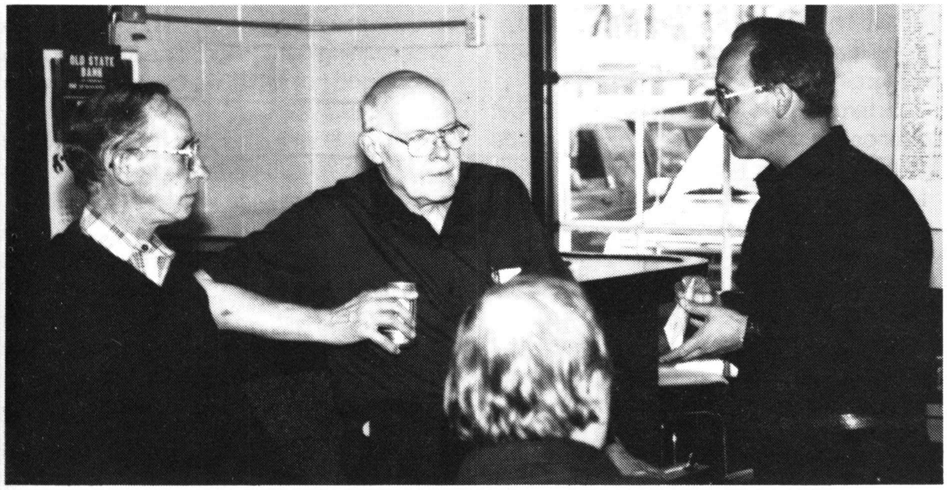
John Gammuto

Ken Hottenstein having a look around.



Jim Boettcher.



Left to right: Stan Buchtel, Phil Sauer, Ed Moag, and the back of Walt Balch's head.

Tom Meredith with the nicest stock I've ever seen.

Barrelmaker Ron Pence.

GEZA NAGY

On Sunday July 21st I went to the Central Jersey Club range to perform a test that I had in mind. I needed two target frames to do this so I built an extra target frame the day before. I also made a little outrigger target frame just big enough to hold 1/2 of an IBS 100 yard target. This little frame was made out of plywood and could be clamped to the main target frame on either the left or right side if needed to correct the alignment of the frames.

I cut the center part out of this part so that the bullet would go through target paper only on its way to the second target frame.

What I had in mind was to set this target frame at 50 yards with the second frame set up in line at 100 yards. Actually I would be shooting groups at 50 yards to see what they would look like at 100 yards.

I set the parallax on my Leupold 36X for 50 yards. With that magnification and absence of mirage the target face was so clear it was easy to hold the cross hairs in precisely the same spot for each shot.

It was relatively simple to set up the system. I aligned the target frames by sighting through the outrigger frame and got the hundred yard frame in line behind it.

I had to set up my L.V. rifle on another bench with the scope aligned on the 100 yard target frame to spot each shot and I recorded where each shot placed. I had to get up from the bench after each shot to see where the bullet went on the 100 yard target.

American Single Shot Rifle Association

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I shot one shot through the 50 yard target and placed a new target on the 100 yard frame centered on the bullet hole there. The point of impact on the 100 yard frame is not to be considered here as there was some error in alignment of the targets on the frames. Only the group size on each target and relationship of each shot to the group is to be considered here. All of the shots were aimed at 50 yards so the impact there was all in the same place.

I finally realized that I was altering the alignment of the frames when I stapled the targets in that wooden outrigger. I had taken a few extra C clamps with me and clamped the target frame legs to the metal supports and put an extra C clamp on the wooden frame at 50 yards. I had perfect alignment after that on the last 2 targets (E & F). I also ran out of 100 yard targets and had to use 200 yard targets on those two groups. They were even better to shoot at.

With no backer behind the 50 yard target it was a little difficult to see those holes clearly. The 100 yard frame had a backer behind it and those holes were easy to see. The target face was very clear.

On target C I stapled a piece of target paper on top of the outrigger frame to shade the hazy mid day sun from shining on the back of the target. That helped a little. That was when I realized why the alignment was getting changed.

Conditions were very good with mostly overcast skies with some occasional hazy sun peeping through. Windage was very light from 4:00 o'clock and that mostly past 50 yards. It was very hot and humid and I could see mirage past the 50 yard target frame.

It didn't seem to be any problem of shots being deflected by going through the IBS targets at 50 yards. The target frame was square to the bench. While spotting the shots at 100 yards each shot went in the same direction as it did on the 50 yard target.

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219-839-4745

On target B I had the first four shots perfectly centered in the moth ball that measured .039. The spotting scope showed 1 small hole at 100 yards. This later measured .073 for the four shots. The fifth shot dropped a little low and under the right side of the group. At 100 yards the shot was low by a larger margin than I expected and slightly right. That wasn't due to any down range condition.

When I was reloading those same cases I found a split in the neck of the same 5th case that fired that shot. The shot went in the same direction from the group as it did at 50 yards. Perhaps some of the gasses escaped through the split causing the shot to go lower more than normal. I replaced the case with one of the sighter cases.

On target D the sun came out for the last 2 shots. The mirage past the 50 yard frame was running right to left. The 50 yard group was round but at 100 yards the group was oval sideways.

Target E was also perfectly round at 50 yards but at 100 yards it was diagonal for the light down range wind past 50 yards.

Targets E and F were shot with my newest lot of 68 Euber F.B. (Lot 21) bullets. The others were shot with last years lot #9.

I used my 6PPC heavy varmint rifle with CPS action made by Walt Periera. The McMillan barrel was also chambered by Walt Periera back in 1983. It has many thousands of rounds through it. How many exactly I don't know.

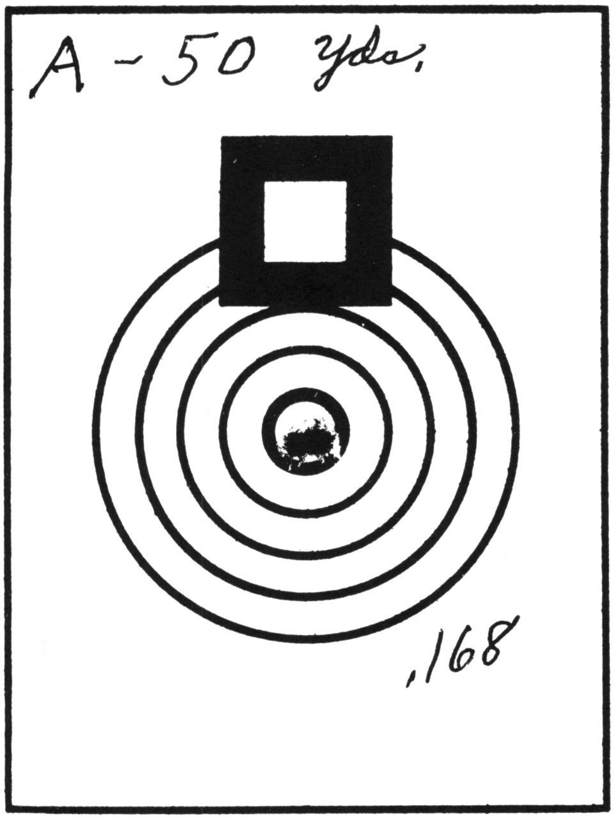
It is the same barrel that I shot the IBS 100 yard heavy varmint aggregate record with back in 1984. It is only the 2nd time that I shot this barrel recently. I was a little skeptical of how much longer it would last. With several newer barrels to play with I just let it lay.

As a matter of fact I used the same 5 cases that I shot the record with. That is, what is left of them. When we finished the 200 yard stage in heavy varmint that day I used the same 5 cases in my light varmint gun. In the first two groups in L.V. at 200 yards I had two single fliers with the 5th shot

Continued on page 47

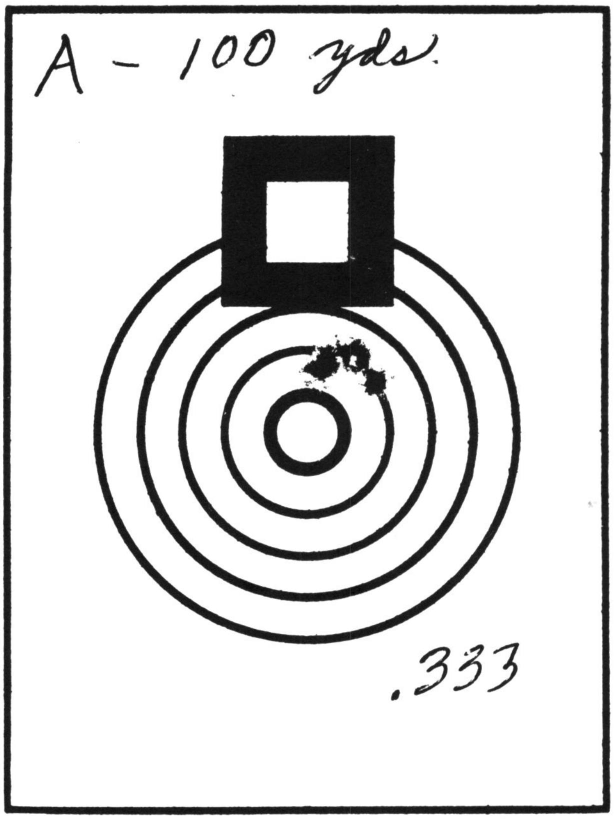
Remington 7.62X39 Brass with small primer pockets reformed to 6 PPC, @ $0.20 each plus case: Jack Lewis, Rt. 3 Box 109 B SnowHill Md. 21863 (301) 632-1583

7/23/90
6 PPC H.V.



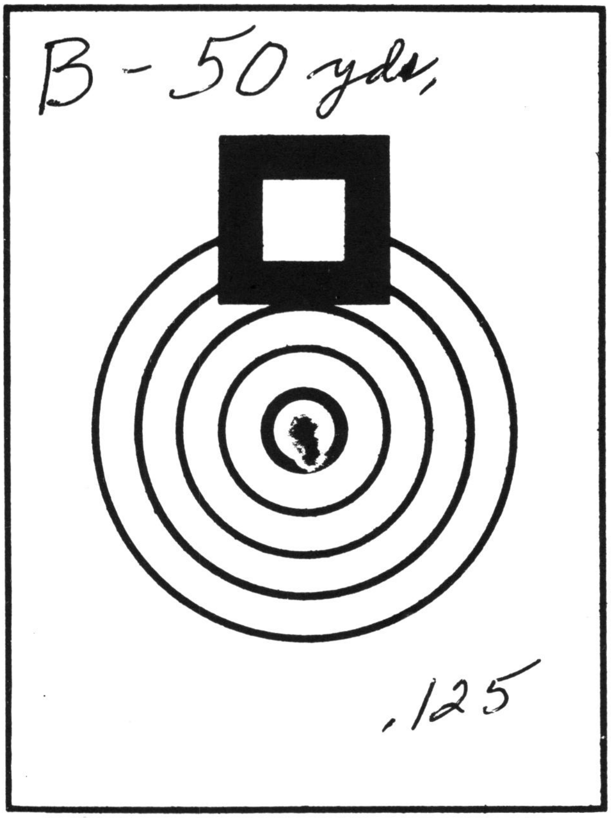
A - 50 yds.

.168



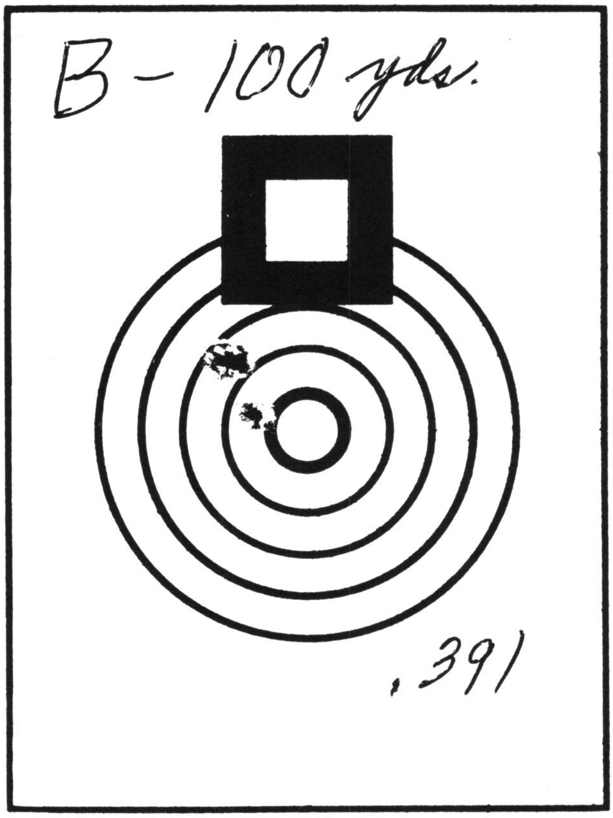
A - 100 yds.

.333



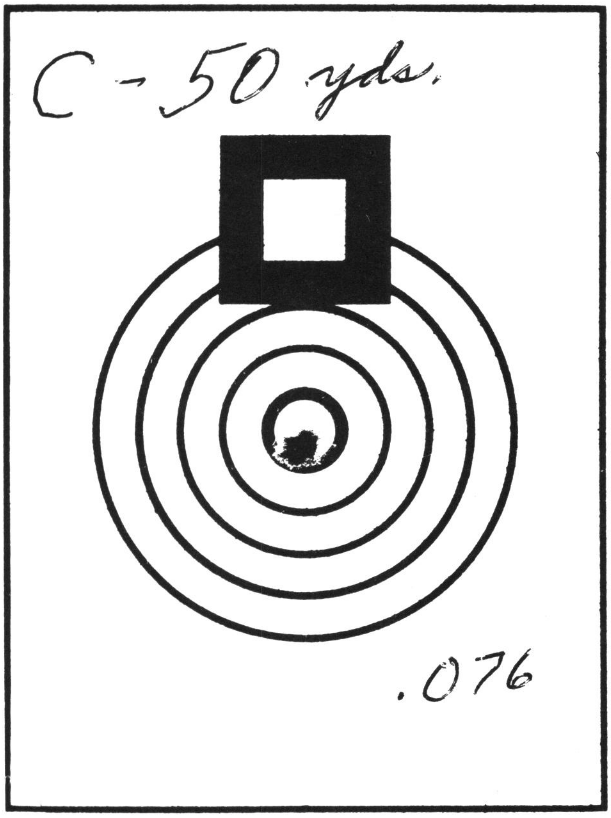
B - 50 yds.

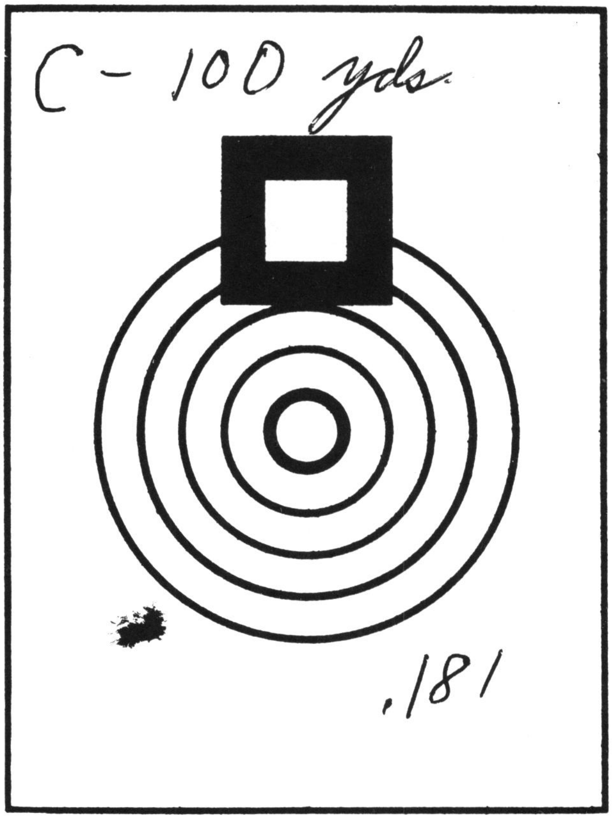
.125

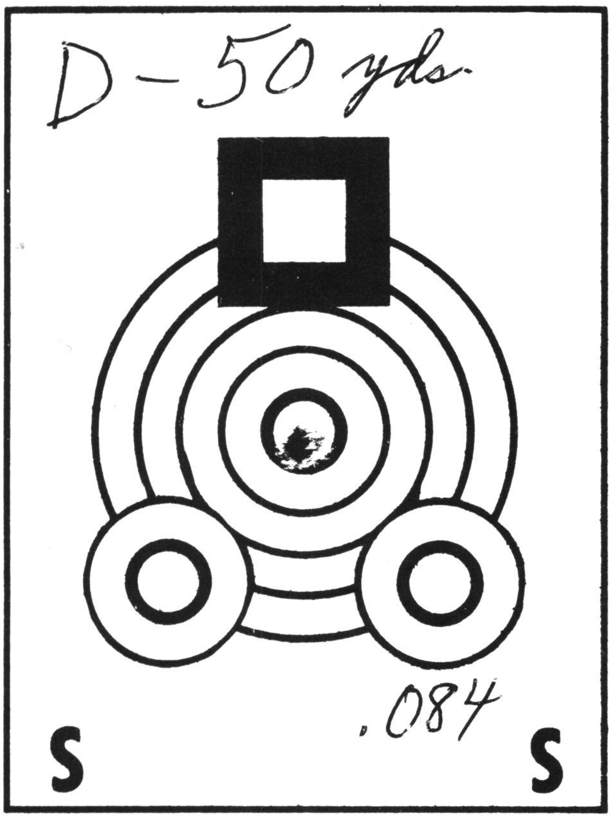


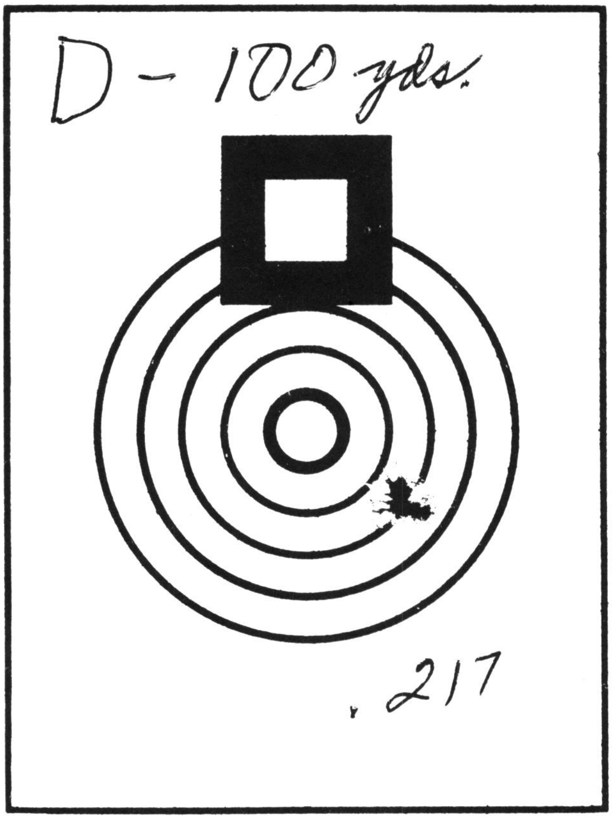
B - 100 yds.

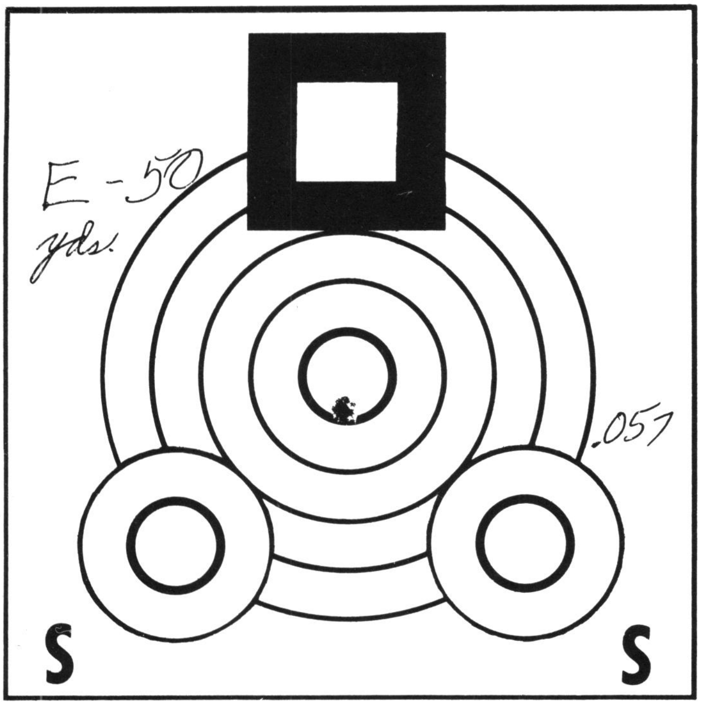
.391

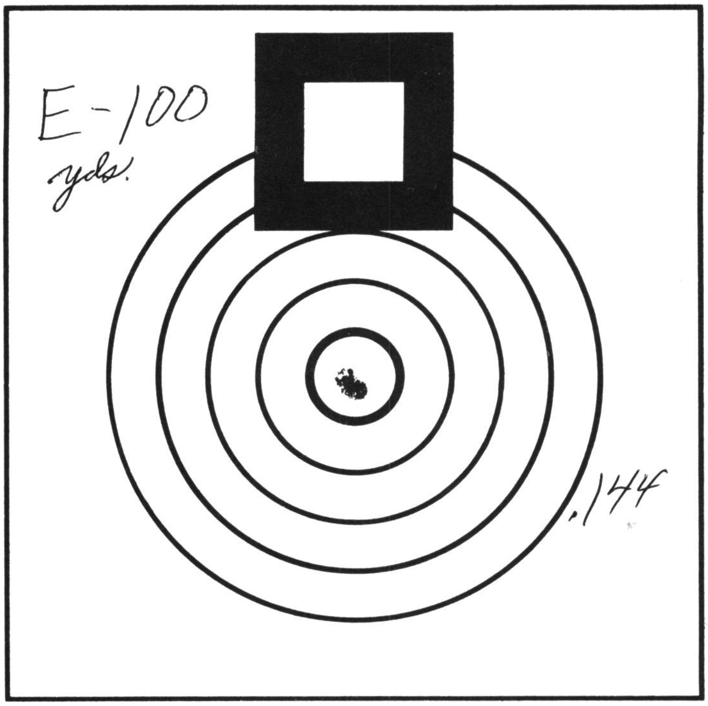

C - 50 yds.
.076

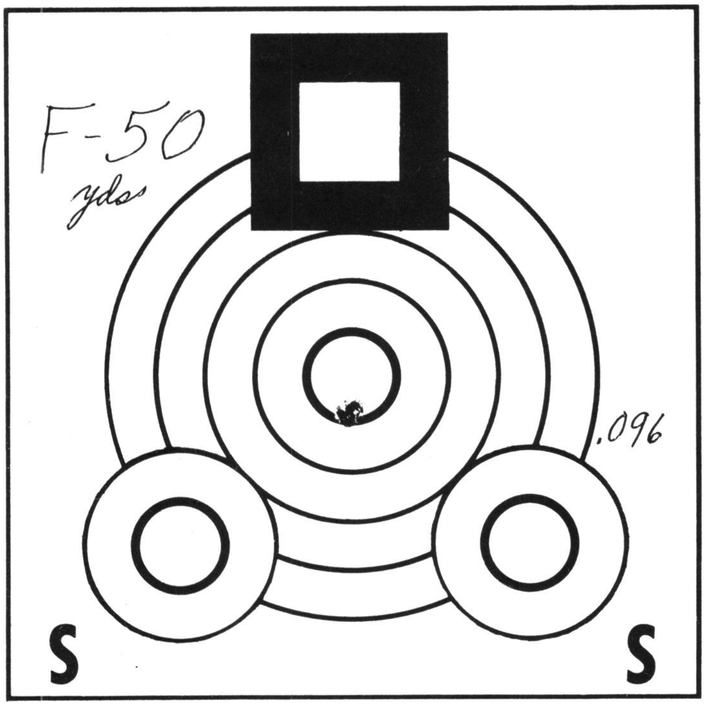

C - 100 yds.
.181

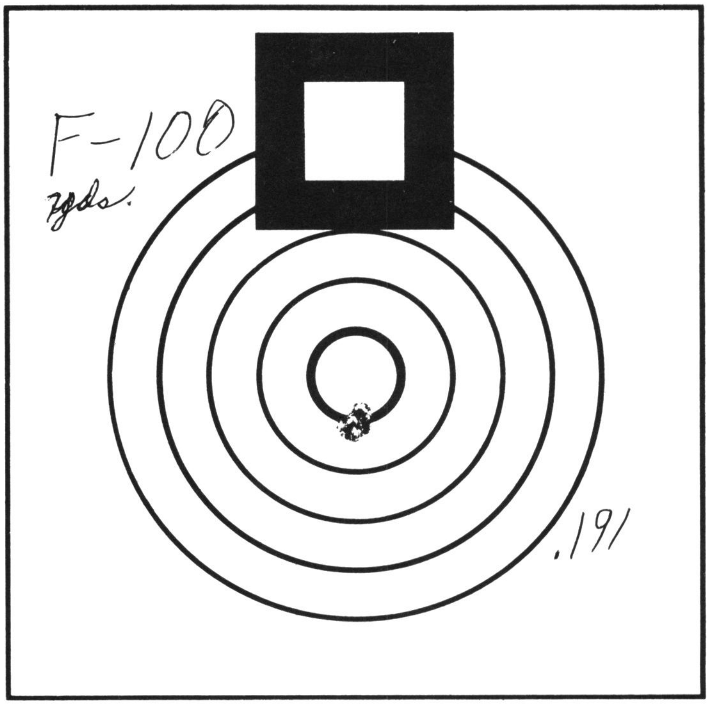

D - 50 yds.
.084
S
S


D - 100 yds.
.217


E-50
yds.
.057
S
S


E-100
yds.
.144


F-50
yds
.096
S
S


F-100
yds.
.191

TRADING POST

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FOR SALE: Anschutz 54.18 MS, .22 LR. Left hand action and stock. B&L 6x24 target scope. All as new in box. $900.00 plus UPS. George Carter (904) 721-7353.

FOR SALE: Rubright 65 gr FB 6mm bullets (1000 for $92.00 - delivered); Canjar improved adjustable trigger for Rem 700/XB actions - $40; Hart barrel used (1300 rounds) 6mm HB 22 in. .264 neck long 6 BR - 1:14 - $50; RCBS 10-10 scale $35- Paul (609) 429-0796.

FOR SALE: 40XBR .308 LV Hart barrel, shot only cast bullets, Sako extractor, Shilen competition trigger $645. Leupold 24X Dot Targetscope $245. (602) 445-1857.

FOR SALE: 722 Rem, 222 T.N.T. Hart sleeve McMillan barrel, laminated stock, Canjar trigger, drive dies, cleaning sleeve. $350.00. (814) 333-4265.

FOR SALE: Combination 2 class, HV and UL, and 2 calibers 22 PPC and 6 PPC. CPS aluminum skeleton stock, Shilen DGA action 6 PPC Hart and 22 PPC Lilja. HV converts to UL by attaching rail wings to stock forearm, and weights to stock rear. A front rest top with knobs to guide rails is provided. $1000 takes all. (206) 588-7362 Bob.

WANTED: High quality LV BR right hand action such as Stolle, Hart, Shilen, etc. Either port but prefer left. (206) 588-7362.

FOR SALE: .308 Hart built Unlimited rifle, w/#4 Hart action, laminated walnut stock with guide rails, front pedestal top included $895. 6PPC 10½ lb. rifle w/XP-100 action in a light weight sleeve glued into a McMillan fiberglass stock. Barrel and 2 oz. trigger are Hart, Burns cone bolt included. Ready to compete $850. 10½ lb. 6PPC, Hall action glued into McMillan fiberglass stock, smithed by Sinclair "state of the art" $325. 6PPC switch barrel 10½/13½ lb. former record holder. Hart sleeved Rem 600 with 2 barrels, Canjar LP trigger, newly painted fiberglass stock, smithed by Bob White $750. Live varmint exterminator 6MM Rem built for benchrest accuracy by Bob White. Rem 40X accurized action, Hart stainless 25″ bbl. fired 65 rounds, fiberglass hunter class type stock, includes lapped scope rings, as new $895. Leupold 36X used scope $275. Unertl 2″ Programmer 24X as new $295 or 30X Target VG/Exc $275 add $40 for additional 20X eyepiece. Send Lg. SASE for 8 page list of guns, scopes etc. Bob White, 8 New Jersey Ave., Lake Hopatcong, NJ 07849. (201) 663-5159.

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FOR SALE: Jarrett custom rifle, 243 Ackley Improved, 700 A.D.L., McMillan stock, 20″ stainless barrel, Shilen trigger, Parkerized action — dies, brass, and mounts included — very accurate (only 80 rounds fired) — must sell due to recent addiction to Skeet — $1995 — call after 5:30 — (814) 968-3572.

FOR SALE: L.V. 6BR round Stolle Panda action. .262 neck. Pat McMillan barrel. Lee Six thumbhole stock painted red. Shilen 2 oz. trigger. Davidson bases. Smithed by T.J. Jackson, stocked and painted by Jim Greenawalt. Only 400 rounds fired. 200 pcs. of formed brass. Also have 100 pcs. of new Rem 6BR brass with small flash hole. Lyman 310 neck sizer with bushings. Wilson seater, Redding form and full length dies. All in mint condition. $1,250. Garry (516) 997-6532 eves.

FOR SALE: Laptop computer, perfect for range applications; i.e., scoring, special research projects, mailing lists, etc. Tandy Model 1400 LT, dual speed 4.77/7.16 MHz, 16 BIT V-20 CPU chip, 768K of system ram memory, two built-in 3.5″ 720K disk drives, built-in support for a printer, color graphics monitor, and an RS-232 adapter, full feature 76 key keyboard, communications modem, and DOS 3.20. The liquid crystal display is 25 lines by 80 columns - the same as a full size monitor. Very nice carrying case included. $750. Call John Gammuto, (312) 269-8701 days, (708) 323-9029 eves.

WANTED: Unertl or Lyman target scope, Mike Swetina, Rt. 5, Box 348-B, Albertville, AL 35950. 205-878-1636.

FOR SALE: XP-100, NIB, .223 or .35 Rem, $299. Thompson contender frame, armor alloy, as new, $155. Saeco-Masker powder measure, $150. JGS reamer, new 7x6.5 Rem. mag. tite neck, $50. FN, Venezuelan contract, M24/30, 7x57, barreled action, hinged guard, mint, $150 / Winchester, M310, 22LR, mint, $160.

BOOKS: Handloading Ammunition by Mattern $40. The Land of Footprints by Stewart Edward White, $25. Hatcher's Book of the Garand, $25. Big Game Rifles & Cartridges by Keith, $35. Practical Dope on the Big Bores by Ness, $40. The Lead Bullet from Breach to Muzzle by Edmond Lewis, $7. The Corbin Technical Bulletins, Vol. 1, 2, 5, 6, $18. The Treasury of Hunting by Larry Koller, $7. William's Guide Line, How to Convert Military Rifles, 4th Ed., 1963, $8. Benchrest Actions & Triggers by Otteson, $10. Respectfully Yours, H.M. Pope by Kelver, $25. A Collector's Guide to the '03 Springfield by Canfield (1989), $20. The Springfield 1903 Rifle by Brophy, $45. U.S. Rifle M14 from John Garand to the M21 by Stevens, $45. NRA Illustrated Reloading Handbook, 1st Ed., 1961, $15. NRA Handloaders Guide, 2d Ed., 1969, $15. Handloader's Digest, 3d, 4th, 5th, 6th, 7th, 8th, 9th, 10th Ed. 3d-6th $15 each others $12 each. Gun Digest, 5th Ed. (1951) $15, 16th Ed. (1962), $10. And last a collection of our bible and primer, Precision Shooting magazine, from 1956-1985 bound in Brownell binder boxes, (I don't know why you jokers haven't snapped this up yet) yours for $450.

WANTED: Search under the lathe, search the closets, search Aunt Millie, I need some take off barrels, like off of 40-X's, M52's, or your LV, HV or hunter gun. Am getting a lathe and want to dink around. Remember, if you are broke I trade and deal. Mike Swetina, Rt. 5, Box 348-B, Albertville, AL 35950 (205) 878-1636.

WANTED: T/C bull barrels 10″ in 45 ACP, 44 mag, 357 max, 38 super, 22 Hornet, 256 Win mag, 30 carb, 45 LC, 32-20. For use, need not be N.I.B. condition. Phil Mahony, 67 White Hollow Rd., Lime Rock, CT 06039. 203-435-9341 eves.

.22 cal. bulletmaking dies and press by Simondson, like new, $700. .22 cal. bulletmaking dies an press by Pindell, excellent condition, $650. Call John (312) 269-6439 days, (708) 323-9029 eves.

GEZA NAGY

Continued

that I knew was not due to conditions. Then I noticed the 5th case had a split neck. I retired those cases after that. They were all fired so many times that I couldn't trust them anymore. I was lucky it didn't happen the day before.

Target A was shot with a different row of cases. Starting with target B I went to those cases that I shot the record with. I replcaed the split neck case with a sighter case that I shot first. When the 5th case split again this time I replaced it with another sighter and kept going with 3 of the original five cases. The load that I used was:

F.L. resized cases
27.6 H322 Lot #42588 50.5 Culver
68 gr. Euber F.B. 2.155 O.A.L.
Fed. 205M primers Lot 3A9571

This is not the first time that I had shot through more than one target at the same time. Back in 1983 I set up targets at 100 - 200 - and 350 yards and shot through all of them at the same time. This was published in P/S titled "Bullet in Flight" in September 1983 issue.

What I was trying to prove then was that a bullet will be affected right, left, up or down by whatever conditions were at any part of the range at a given time.

Then, as now the minute of angle principle was fairly evident. That is 1″ at 100 yards = 2″ at 200 yards and 3½″ at 350 yards. Condition changes and bullet stability could alter this. Both times the groups got progressively bigger at each distance change.

Even that 4 shot .039 at 50 yards (target B) measured .073 at 100 yards (close enough) pretty well fit the minute of angle principle. It was pretty evident in the shots on this day when I had some perfect conditions. In my mind it was the conditions down range that made the groups get bigger.

Suppose you had perfect conditions, perfect load and perfect bullet stability and you shot a group at 200 yards that measured .008. That group could have been .004 or less at the 100 yard line.

Now let us suppose you shot a group at 200 yards that measured absolutely .000. Where would the minute of angle principle come in? Is there an unknown negative dimension that we don't know about? Someone explain this to me.

In analyzing the targets as shot the 50 yard targets had a 6 group aggregate of .1010 and the 100 yard targets were .2433. Multiply that 50 yard target aggregate X 2 = .2020 M.O.A. That is nearly a 20% loss of accuracy at the 100 yard targets due to some down range conditions and also the split neck case.

Out of the many thousands of rounds that I shot through all of my 6PPC barrels through the years I only had a few split necks in the Sako cases. I think this is remarkable especially since the neck thickness that I mostly used was .008 with some wearing down to .007^8 from many firings and cleaning. My chambers are .263 neck diameter.

I'm going to have one more Schaefer beer Lot #10490 before going to bed. Yes the Schaefer beer does have lot numbers on them. It is on the can "best flavor if used by that date."

Geza J. Nagy

(Editor: it is the occasional discovery by our columnists . . . and here I am talking abou the Geza Nagy discovery immediately above . . . Schaefer beer has lot numbers on the cans . . . that makes Precision Shooting magazine unique. I ask you . . . have you seen important-inside-scoop like this in any other firearms publication recently? Feel free to write to us, telling us how your life has been enriched by this discovery.)

ERIC SINCLAIR

Dear Dave

I'm sending along some printouts from the data that we received in our sponsored "Postal Match" (March '90 PS). Thought you might be interested in seeing it.

We had 102 targets submitted to us. Not too bad for a first time effort!

We also received several enthusiastic letters from shooters who were unable, for one reason or another, to participate in "regular" (registered) matches . . . due to finances, distance, or whatever.

Last of all, thanks for your help, and your support!

Eric Sinclair
Sinclair International Inc.
718 Broadway
New Haven, Ind. 46774

Editor:

If you're crazy enough to do it again, I'm crazy enough to allow you the pages you need. Have you ever considered sponsoring a soap-box derby?

Continued on pages 48-51

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Phone (503) 469-7330

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SEPTEMBER 29 & 30
Saturday, September 29
9:00 AM—Heavy Varmint, 100 Yards
1:00 PM—Light Varmint, 100 Yards
Sunday, September 30
9:00 AM—Light Varmint, 200 Yards
1:00 PM—Heavy Varmint, 200 Yards
AWARDS
1st, 2nd, 3rd each yardage
1st, 2nd, 3rd, 4th, 5th Grand Agg.
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Small Group each yardage
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Roye Leckemby,
Rt. 2, Box 21, Smithfield, Pa. 15478
(412) 569-7973
Ray Goff,
P.O. Box, Point Marion, Pa. 15474
(412) 725-5794

SCORE & COMPETITORS INFORMATION

SCORE	GROUP	NAME	ADDRESS	CITY	STATE	ZIP
50-5X	.147	Wagner, John	42 High Hill Dr.	Pittsford	N.Y.	14534
50-5X	.158	de Reus, Ron	203 E 2nd St.	Muscatine	IA	52761
50-3X	.328	Latray, F	926 Maple Blvd.	Monroe	MI	48161
49-3X	.432	Morse, Gordon	39234 Ormsby	Mt, Clemens	MI	48043
49-2x	.310	Mc Dougal, John	RR#2 Box 300	Newport	AR	72112
49-2X	.462	Berg, Sid	5210 Cummings Rd.	Eureka	CA	95501
49-2X	.481	Hoverstad, Herbert	4845 Candy Ln.	Manlius	N.Y.	13104
49-1X	.431	King, Greg	RR #3 Box 96	Auburn	IL	62615
48-3X	.399	Leavins, George	8830 Tri-City Beach Rd.	Baytown	TX	77520
48-3X	.458	Krishnek, Ken	1219 N Liberty Rd.	Boise	ID	83704
48-2X	.430	Jones, Robert	3608 Monterosa Dr.	Altadena	CA	91001
48-2X	.622	Fuller, William	103 Robbins Lane	Dewitt	N.Y.	13214
48-2X	.638	Gordon, Harry	4325 Grayson Dr.	Indianapolis	IN	46208
48-1x	.326	Sperry, Kenneth	23016 E. Remick	MT. Clemens	MI	48043
48-1x	.381	Barbettini, Elmer	1364 Latona St.	Anaheim	CA	92804
48-1x	.645	Sperry, Kenneth	23016 E. Remick	MT. Clemens	MI	48043
47-2X	.377	Stingl, Gary	S 45 W 25076 Black Oak Ln.	Wauksha	WI	53186
47-2X	.395	King, Greg	RR #3 Box 96	Auburn	IL	62615
47-2X	.611	Lenchner, Keith	54 Ehret Ave.	Harrington Park	N.J.	07640
47-2x	.673	Stephenson, Charles	3404 Meadow Lane	Bay City	TX	77414
47-2X	.896	Fuller, William	103 Robbins Lane	Dewitt	N.Y.	13214
47-1X	.418	Gustafson, Dennis	1530 1st Str. SE.	Minot	ND	58701
47	.489	George, Reymond	411 Seven Pines Dr.	Pickerington	OH	43147
46-2X	.755	Crisman, John	721 N. 18th	Las Vagas	NV	89101
46-2X	1.068	James, Dougles	682 W. Arlington Ave.	St.Paul	MN	55117
46-1X	.385	Nicol, Richard	513 Maynard Ave. S. #303	Seattle	WA	98104
46-1X	.430	Vingling, Chris	15555 Barnes Rd.	New Windsor	MD	21776
46-1X	.645	Ramthun, Jim	904 Lenora Dr.	West Bend	WI	53095
46	.873	Penner, Peter	Box 1067	Steinbach Mana.	Canada	ROA-2A0
45-2X	.817	Parren, Thomas	905 S. Oak Park Ave.	Oak Park	IL	60304
45-2X	.827	Yerian, Ronald	7716 Heatherwood Dr. N.W.	Canal Winchester	OH	43110
45-1X	.318	Coggin, Douglas	Box 1126	Mississippi State	MS	39762
45-1x	.521	Zuchowski, Gerald	3606- 107th St.	Kenosha	WI	53142
45-1x	.649	Sinclair, Fred	1200 Asbury Dr.	New Haven	IN	46774
45-1X	.692	DOYLE, MIKE	23229 BROOKDALE	ST. CLAIR SHORES	MI	48082
45-1x	.894	Delmage, Doug	6004 - 47 Ave.	Camrose	Alb. Canada	T4V-0G9
45	.396	Nicol, Richard	513 Maynard Ave. S. #303	Seattle	WA	98104
45	.480	Dietz, Harvey	2620 Shoshone	Boise	ID	83705
45	.525	Armstrong, Ken	15894 Flanders	Southgate	MI	48195
45	.634	Canvin, H	2751 Duke St.	Vancover, B.C.	Canada	V5R-4S8
45	.742	Helmcamp, Leonard	1407 Prince St.	Houston	TX	77008
45	.986	Bodjanac, Robert	1208 Ludington St.	Escanaba	MI	49829
44-2X	.887	Crosson, Allen	&04-A Sherwood	Madera	CA	93638
44-1x	.999	Barnes, Garaland	2026 11St.	Arcata	CA	95521
44	.345	Graham, Ken	RR# 2	Regina, Sask.	Canada	S4P-2Z2
44	.566	Sanders, John	P.O. Box 1037	Placerville	CA	95667
44	.578	Baker, Carl	15555 Barnes Rd.	New Windser	MD	21776
44	.801	Gruber, Markus	70-16 68th Place	Glendale	N.Y.	11385
44	1.079	McGee, Mike	Box342	Corrogenville	MD	21514
43	.373	McQuisten, Richard	1706 Symons	Laramie	WY	82070
43	.383	Grix, Larry	468 Rancho Dr.	Thousands Oaks	CA	91362
43	.414	Gabel, Greg	Box 8 BA Rt.3	Hardinsburg	KY	40143

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SCORE & COMPETITORS INFORMATION

SCORE	GROUP	NAME	ADDRESS	CITY	STATE	ZIP
43	.684	Stives, Rick	Rt. 1 Box 85	Duke Center	PA	16729
42-1x	.773	Doan, Jim	1042 Phyllis Ave.	Princeton	IL	61356
42-1X	.824	James, Lee	506 Marylinn Dr.	Milpitas	CA	95035
42-1X	.844	Maycunich, Marc	6354 M.3 lane	Escanaba	MI	49829
42	.287	Gabel, Greg	Box 8 BA Rt.3	Hardinsburg	KY	40143
42	.458	Lenchner, Keith	54 Ehret Ave.	Harrington Park	N.J.	07640
42	.976	Schuette, Eugene	27234 Westland	Redford	MI	48240
42	1.052	Lewandoske, Richard	743 Sheridan Dr.	West Bend	WI	53095
42	1.240	Long, Gary	1716 Gypsy Lane	Columbus	OH	43229
41-1X	.567	Leavins, George	8830 Tri-City Beach Rd.	Baytown	TX	77520
41-1X	1.196	DeVore, Jeffrey	9018 Crouse Willison Rd.	Johnstown	OH	43031
41	.546	Frey, Lawrence	21046 Lantz Dr.	MT. Clemens	MI	48043
41	.610	Pettit, Don	Rt. 5 Box 251-A	Santa-Fe	NM	87501
41	.626	Crain, Lee	1091 East Wind Peak Way	Sandy	UT	84094
41	.637	Reed, Warren	227 E. Schreyer Pl.	Columbus	OH	43214
41	.717	Evans, Donald	3105 Grove St.	Baker City	OR	97814
41	.745	Parks, Jim	Rt. 1 Box 118	Webster	KY	40176
41	.913	Paulson, Reinis	841 W. Gleason Place	Beverly Hills	FL	32665
41	1.091	DOYLE, MIKE	23229 BROOKDALE	ST. CLAIR SHORES	MI	48082
41	1.128	Hames, Herbert	31708 Scone	Livonia	MI	48154
40-1X	.778	Christensen, LeRoy	RR# 3 Box165	Red Lake Falls	MN	56750
40-1X	1.086	Ortiz, Robert	847 Manida St.	Bronx	'N.Y.	10474
40	.590	Frey, Lawrence	21046 Lantz Dr.	MT. Clemens	MI	48043
40	.660	James, Lee	506 Marylinn Dr.	Milpitas	CA	95035
40	.810	Smith, Will	1349 W. 2600 N.	Clinton	UT	84015
40	.867	Hamre, Gerald	2620 16th. Ave. E.	Hibbing	MN	55746
40	1.814	Doyle, Mike	23229 Brookdale	St-Clair Shores	MI	48082
39-1x	1.184	Joseph, Jack	Box 403	Valintine	NE	69201
39	.234	Bryant, Mike	Rt. 1 Box 169	Wheeler	TX	79096
39	.477	Sparks, James	Rt. 2	Lynnville	TN	38472
39	.609	Brackensick, Ron	1505 Hains	Richland	WA	99352
39	.635	Edwards, A	11048 Fuller Crescent	Delta B.C.	Canada	V4C-2C7
39	1.690	Strange, John	RR 4 Box 136A	Troy	MO	63379
38-1x	.978	Paton, James	206-456 E. 8th Ave.	Vancover BC	Canada	V5T-1S7
38	1.326	Disch, Louis	1475 So Emerson St.	Denver	CO	80210
37	.316	Smith, Will	1349 W. 2600N.	Clinton	UT	84015
37	1.253	Drum, David	1494 Arrowbee Dr.	Placerville	CA	95619
36	.782	Scott, Kerry	Rt.2 Box 354A	Amherst	VA	24521
36	.801	Fisher, Donald	P.O. Box 382	Madison	VA	22727
36	.975	Moody, Gerald	716 Wendall	W. Chicago	IL	60185
36	1.226	Smith, Will	1349 W. 2600N	Clinton	UT	84015
35	.423	Roe, John	P.O. Box 510	Hardinsburg	KY	40143
35	.937	Moody, Gerald	716 Wendall	W. Chicogo	IL	60185
35	1.193	Mudrak, Andy	5235 Unity Ct.	Crystal	MN	55429
34	.745	Honadel, Ole	517 12th St. N. W.	Minot	ND	58701
34	1.352	Tagtmeyer, Daniel	19 Saint Anne's Lane	Teaticket	MA	02536
34	1.730	Paton, James	106-456 E. 8th Ave.	Vancover BC	Canada	V5T-1S7
33	1.262	Fleeman, Larry	2915 Cascade Dr.	Ann Arbor	MI	
32	1.937	Fleeman, Larry	2915 Cascade Dr.	Ann Arbor	MI	48104
-	-	Forcher, Antone	P.O. Box 1172	Happy Camp	CA	96039

LOAD INFORMATION

CARTRIDGE	POWDER	WEIGHT	BULLET MFG	WEIGHT	STYLE	PRIMER	CASE MFG
17 Rem.	4320	24.5	Berger	25	HP	7 1/2	Rem.
17 Rem.	IMR-4064	22	Rem.	25	HP	7 1/2	Rem.
17Rem	4320	24.5	Hor	25	SP	7 1/2	Rem
22 long rifle							CCI green tag
22 PAP	H-322	27.5	Sierra	52	BTHP	205M	Fed. 222
22-250	?	?	Hor.	53	HP	CCI	Win.
22-250	H-380	35	Sierra	52	BTHP	CCI	Rem.
22-250	H-380	36	Berger	60	HP	CCI	Rem
22-250	H-380	36	GTB	52	HP	210M	Win.
22-250	H-380	36	Sierra	53	BTHP	CCI	WW
22-250	H-380	38	GTB	52	HP	210	W-W
22-250	H-380	38	Nosler	52	BTHP	210M	Frontier
22-250	H-380	38.5	Speer	55	SP	9 1/2	W-W
22-250	H-414	41	Berger	52	FBHP	210M	Rem
22-250	H-4895	34.5	Rem.	55	?	210	Rem.
22-250	H-4895	34.5	Sierra	53	HP	CCI	Win.
22-250	H-4895	36.	Nosler	52	BTHP	210	Rem.
22-250	IMR-4064	?	Sierra	55	BTHP	CCI	Rem
22-250	IMR-4064	35	Berger	52	HP	210	Rem.
22-250	IMR-4064	36	Nosler	52	BTHP	CCI	Fed.
22-250	IMR-4320	33.5	Sierra	55	SP	210M	Rem.
220	H-380	41.5	Sierra	52	BTHP	CCI	Win.
220	H-380	42.5	Hor.	52	BTHP	CCI	W-W
220	IMR-4064	37	Berger	52	HP	CCI	W-W
220	IMR-4064	38	Sierra	53	HP	210	Win.
220	IMR-4320	37.5	Nosler	50	BT.Spitzer	9 1/2	Norma
220 Swift	4064	34	Sierra	52	BTHP	210M	Win
221	IMR-4198	16.8	Sierra	53	HP	205M	Rem.
222	4198	19.5	Sierra	53	HP	7 1/2	Fed.
222	BLC-2	24.5	Hor.	53	HP	210M	Fed.
222	BLC-2	25	Hor.	52	BTHP	CCI	Rem.
222	H-322	22	Berger	52	HP	205M	Sako
222	H-322	23	Nosler	52	HP	CCI	Fed.
222	H-335	23	Speer	52	HP	CCI	Rem.
222	H-335	24	Sierra	53	HP	205M	Fed.
222	IMR-4895	23.5	Berger	52	HP	205M	Fed.
222MAG	H-335	27.7	NOSLER	50	HP	7 1/2	REM.
222x35	H-322	24	Berger	52	HP	205M	Rem.
223	4320	26.5	Hor.	50	HP	205M	Rem.
223	748	27	Custom	52	HP	205M	Sako
223	748	27	Rem	52	HP	7 1/2	Fed
223	AA 2230	27	Watson	55	HP	205M	Fed.
223	BLC-2	25.5	Nosler	50	Expander	205M	Win.
223	BLC-2	26	Speer	50	HP	7 1/2	Military
223	H-322	22.5	Sierra	69	BTHP	CCI	Fed.
223	H-322	24.5	Sierra	52	BTHP	205M	Rem.
223	H-335	25	Sierra	52	BTHP	205M	Win.
223	H-4895	25	Berger	52	HP	205M	Rem.
225	IMR-4064	31	Sierra	53	HP	CCI	Win.
22BR	Rel. 12	31	Sierra	53	HP	205M	Rem.
243	4064	39.5	Hor.	75	HP	CCI	Rem.
243	4064	41	Sierra	75	HP	210	Fed

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LOAD INFORMATION

CARTRIDGE	POWDER	WEIGHT	BULLET MFG	WEIGHT	STYLE	PRIMER	CASE MFG
243	AA 2520	36.5	Sierra	87	BTHP	CCI	Fed.
243	H-380	45	Sierra	60	HP	CCI	Win.
243	H-4831	44	Nosler	100		210M	Fed.
243	H4831	45.5	Hor.	75	?	210M	Norma
243	H4831	49	Sierra	60	Spitzer	210M	Rem.
243	IMR-3031	38	Sierra	60	HP	Win.	Rem.
243	IMR-4350	38	Sierra	85	BTHP	210	Rem.
243	IMR-4350	43	Sierra	75	HP	210	Rem.
25 UGALDE	AA 2520	28	Sierra	75	HP	7 1/2	W-W
257 ROBERTS	IMR-4350	45	SPEER	100	HP	9 1/2	REM.
27-08	4350	42	Smith	142	HP	210M	U.S.
270	H-4831	57	Sierra	140	BTHP	CCI	Fed
270 Wby	H450	79	Sierra	90	HP	CCI	Wby.
280	IMR-4350	53.5	Nosler	140	Bal. Tip	210M	Rem.
30 HBR	748	42	Chism	150	HP	210M	Rem.
30-06	IMR-4064	51.7	Nos.	150	Ball. Tip	210M	Win.
30-06	IMR-4350	59	Sierra	150	BTHP	215	W-W
30-06	IMR-4895	46.5	Hor.	168	HP	CCI	Lake city
308	3031	37	Sierra	168	BTHP	Rem.	WW
308	AA 2520	41	Hor.	168	HP	210M	Lake City
308	AA 2520	42.5	Sierra	168	BTHP	210M	Win.
308	H-380	45	Sierra	168	BTHP	210M	Fed.
308	H-380	45	Sierra	168	BTHP	210M	Fed.
308	H-4895	40	Sierra	168	BTHP	210M	Fed. Nickeled
308	H-4895	40.5	Tauber	165	BTHP	210	RWS
308	H-4895	41	Sierra	168	BTHP	CCI	Rem.
308	H-4895	44	Sierra	125	SP.	210 Mag	WW
308	IMR-4064	47	Sierra	150	SP	210	Rem.
308	IMR-4895	41	Hor.	168	BTHP	210	Fed.
308	Rel.12	44.5	Sierra	168	Match	210M	Fed.
35 Whelen	4320	54.7	Speer	250	Spitzer	CCI	R-P 30-06
6 HLS	H-4895	32.2	Custom	70	HP	210M	Fed.
6.5x308	Re. 22	45	Nos.	120	Ball. Tip	CCI	?
6BR	748	32	Sierra	85	BTHP	Win.	Rem.
6BR	H-4895	31.5	Fowler	66	HP	205M	Rem.
6BR	T-32	29.3	Berger	68	HP	7 1/2	Rem.
6PPC	H-322	26.5	?	68	HP	205M	Sako USA
6PPC	H-322	27	Coyl	68	HP	CCI	Sako
6PPC	H-322	27.5	Berger	68	FBHP	205M	Sako
6PPC	H-322	27.5	Bryant	68	FB	7 1/2	220 Rus.
6PPC	H-4895	27.2		67	FBHP	205	Sako
6PPC	IMR-4198	24	Sierra	70	BTHP	205M	Sako USA
6PPC	T-32	27	Messer	66	HP	7 1/2	Sako
6Rem	H-414	45	McCac.	63	FBHP	Rem	Rem
6Rem	Rel. 19	51	Speer	75	HP	CCI	Rem.
6x47	H-322	26	Bruno	68	HP	205M	Rem.
7-08	H-380	44.5	Speer	145	BTHP	Win.	Rem.
7-08	H-380	45.5	Nos	150	Ball. Tip	9 1/2	Norma
7BR	H-322	29	Hor.	100	HP	Win Sm	Rem
HC30-30	H-4895	36	Chism	130	HP	7 1/2	Fed.

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TCL
Ameri-Con-News

American Conference, Transcontinental Hunter Rifle League

BLIND FREDDY MOB	
Mainville	3-0
West Texans	2-1
Blue Grass	2-1
Minnetonka	2-1
Holmen	0-3

BLACK STUMP MOB	
Golden	3-0
Tri-County	2-1
North. Colo.	1-2
Bald Eagle	0-3

BUSH MOB	
LaGrande	3-0
Dakota	2-1
Red Lodge	1-2
Buffalo	1-2

IN IT MOB	
Van Dyne	3-0
Cent. Tex. N.	1-2
Richmond	1-2
Cody	1-2
Prairie Dog	0-3

Thank goodness for watch dogs – the nonbiting type. These newsletters, as necessitated by deadlines, are hastily written by one who never makes a mistake . . . at least not until someone is bold enough to discover an error. Harold Flenthrope was brave enough to not only notice two recent mistakes, but also, to point them out – to ME! Well, when you are wrong, sulk, change the photo (Yes, Harold, I have your picture) on the dart board, send Terry on another field trip, and . . . and face the truth . . . then, right the wrongs.

First, "The Posse", Golden Gun Club was undefeated after the June matches, not 1-1 as listed in the last newsletter. Nov, Golden stands alone at 3-0 after their July plucking of Bald Eagle. Golden, somewhere beyond the Black Stump, and likely to end the season perched atop the chared remains.

Second, was the typo in the July schedule, which had hapless Bald Eagle fighting both Golden and Cen-Tex, North. The correct version for July: Bald Eagle vs. Golden; and Cen. Tex. No. vs. Dakota. Please, notify me of any errors . . . Harold, I could use a fresh photo!

Some old business: Last season's "Belt Buckles." Tony Seneca has informed me that he and three other individuals from the northwest did not receive their "89" buckles. I need a note from anyone who did not receive a buckle for 1989. If you shot a 250 in a TCL match (American Conference) during 1989, and did not get your buckle, please notify me pronto.

"Sure Bet," the new moniker for Van Dyne, Wisc.! Powered by Jim Angle and John Puhl, and solid performances from Lee Keller, Marty Stenback, and Dick Baier, Van Dyne is "IN IT"! The "Sure Bet" . . . the first club to lock up a shoot off spot for 1990. Gentlemen, congratulations, your achievement leaves us all a livid green!

In the Bush Mob: LaGrande, Oregon lead by Larry Cribbs, and Larry Bryant, will have to choke on a mouthful of bark before they see the division title slip through their teeth. These guys are real smart alecs – in the words of their leader (Larry Cribbs), "Randy, Bryant and Frizzell are both shooting wood stocks! Beavers? . . . or what?" If you guys shoot another 1241, Terry will be out and dump a Load from the Honey Wagon in your stream – let's see you talk with "that" in the water!

Should LaGrande choke, Dakota is poised to challenge for "The Bush" title. A strong July score has lifted Dakota to a 2-1 mark. However, the Dakotans are down 85 points to the Beavers – it will take a lot of bark.

Golden has the opportunity to close the regular season at 4-0. Should the posse stumble, Judi's boys (Tri-Co., OR) could claim the Black Stump Crown via an August victory. Regardless, the Tri. Co. squad presents formidible challenge for the wild card bid.

Blind Freddy, meanwhile, resembles the "Bush" race. Mainville, 3 & 0, would have to suffer a defeat at the hands of Cody, while being completely thrown out of the chase – not a likely "happening" with the tenacious "pack". Mainville enjoys a 40 point advantage over Minnetonka, who need a final victory and a high score – 40 points . . . probably out of reach.

LaGrande blazed the Bush with a pair of 250's: Larry Cribbs, 250-17X; Larry (his other brother Larry) Bryant, 250-14X! Al Kogoy shooting a 6x45, smithed by Fritz and stocked by Long, hammered a 250-11X for Mainville. Gentlemen, take a bow!

For the smart alecs out there, not a single squak about Tony Seneca's record-smashing 256-6X shot during July. Therefore, this 256-6X score by Tony will stand as the new Ameri-Con and World Record Hunter Class Typo Score. Let's see you beat that!

For Hunter Rifle Competition
R. G. Robinett

1990 MATCH SCHEDULE

AUGUST

Mainville, PA	vs.	Cody, WY
No. Colo.	vs.	Red Lodge, MT
Tri-Co., OR	vs.	Prairie Dog, S.D.
Minnetonka, MN	vs.	LaGrande, OR
West Texans	vs.	Richmond, CA
Cen-Tex, No. TX	vs.	Blue Grass
Van Dyne, WI	vs.	Buffalo, WY
Golden, CO	vs.	Dakota, SD
Holmen, WI	vs.	Bald Eagle, MN

TcL

TRANSCONTINENTAL HUNTER League - National Conference

Newsletter of July 1990 **as written by BOB PEASE**

EASTERN DIVISION		NORTHERN DIVISION		CENTRAL DIVISION		SOUTH-WEST DIVISION	
DUNHAMS BAY	3-0	SNOW SHOE AK	3-0	ST. LOUIS BR	3-0	SAN JUAN NMEX	3-0
CAP.CITY ME	2-1	ENTIAT WASH.	2-1	LA. CAJUNS	1-2	LAS VEGAS NEV	3-0
TIFFIN O IWL	2-1	WEST MONTANA	1-2	NORTHERN IA	1-2	SOUTH FLORIDA	3-0
AURORA ILL	2-1	T C. ILLINOIS	1-2	MENTOR OHIO	1-2	WACO AREA TEX	1-2
CHIPPEWA OH	1-2	YELLOWSTNE MT	0-3	MENOM.FLS WI	1-2	NORTHERN COLO	1-2
HOLMESBRG PA	1-2	LA CROSSE WI	0-3	SW LOUISIANA	0-3	CENTRAL TEX BR	1-2

NEWS AND THOUGHTS

The 250 out of 250 "POSSIBLE CLUB" shooters this month featured Rusty and Ted Whitehall from Entiat, Dan Caruso of Maine, Jack Jackson of Holmesburg and Mark Vincent from SW Louisiana. The unconscious ones in St. Louis were Larry Smart, Joe Hemrens and Mike Schneidman who were joined by the New Mexico cavern shooters Bill Thompson and Leroy Ransom. Ten shooters in all earned belt buckles this month and all are to be congratulated.

The Eastern Division looks like a runaway the moment but one slip and both Capitol City and Tiffin are close behind the Bay group.

The Northern Division is a heart breaker as Entiat and West Montana went all out this month. Entiat bested the Cajuns and moved into 2nd place in the point standings while Western Montana lost a tough one to the Snow Shoe Kids.

St. Louis once again locks in their division with a 3rd straight win which is unbeatable next match. An optimist might say they have locked in the year but I never count the ducks until after the dog retrieves.

San Juan and Las Vegas have a good battle going in the South+West Division with So. Florida making their best ever showing in this their second year. Three wins are not easy for a new group to achieve. Wheels could fall off in August as LaCrosse is due to shoot tough.

So many times I am asked about the cartridge configurations many of the Hunter Class shooters employ. Basically it amounts to no greater mystery that some form of either a shortened .308 case or a lengthened BR case. The object is to get as close to the 45-1/2 grains of water minimum capacity specification as possible. Sometimes it is achieved by a special reamer while others run a BR reamer in deeper or hold back a .308 reamer for about the same end result. Dies of the Wilson persuasion are soft steel similar to a barrel and can either be chambered with the same reamer or in some cases merely shortened to the correct dimension.

Some gunsmiths chose a body length of 47mm while others use 48mm hence the 30x47 or the 30x48 designation. The .30 IHMSA is another shortened case developed by the International Metallic Silhouette Ass'n. These shortened cases allow good loading density which is conducive to accuracy. Most shoulders are steeper than normal thus helping to eliminate case stretch and elongation. With bullets seated at or near the lands capacity is not reduced as much as one might think. Great efficiency and improved accuracy are the bottom line.

IBS News

Edited by Dave Brennan

MAINVILLE

Mainville hosted the Pennsylvania State Score Championships on July 14th and 15th. In the spirit of being proper and gracious hosts, the Pennsylvania shooters "went into the tank" en masse, at least as far as winning a class goes. The varmint hunter class (19 shooters) went to JOE GILBERT, a Maine-iac. Hunter class (18 shooters) went to CLARK GREENE, a Missourite. And varmint for score class was taken by TED PARRECO, a Marylander.

We are told that 4 junior shooters and 12 rookies competed . . . a good sign that the sport continues to attract new blood. Saturday threatened rain all day (normal Mainville match weather), but conditions were good, with maybe a half-inch of hold-off. Sunday was true Mainville weather . . . hot, wind, rain, wind, cloudy, wind, sunny, wind, and more wind (30 to 90 m.p.h.). Nothing that a six and a half inch hold-off wouldn't compensate for!

Hunter class, 100 yards: 1.) Clark Greene 250-13x, 2.) Joe Gilbert 249-8x, 3.) Gary Long 248-9x, 4.) Guy Green 247-10x, 5.) Randy Fritz 247-8x. At 200 yards: 1.) Guy

Continued on page 57

PENNA STATE SCORE CHAMPIONSHIP, MAINVILLE SPORTSMAN CLUB, MAINVILLE, PENNSYLVANIA 07/14/90 to 07/15/90

HUNTER Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
C. Greene	30X47	Rem 722	Lilja	A. Freund	Self	Leupold	6X	Win	44.6g 748	Own	Fed
G. Chism	30X47	Rem	Lilja	Smart	Smart	Leupold	6X	Rem	43.5g 748	Chism150g	Fed
G. Long	30X47	Rem	Maclennon	Fritz	Long	Leupold	6X	Rem	41.5g 748	Chism150g HP	210
G. Green	308W	Rem 722	Hart	Self	Self	Pecar	6X	Fed	42.0g H4895	Sierra168g	210M
V. Pastorella	308	Rem	Hart	Self	Self	Weaver	6X	Fed	41.0g 4895	Own168g	Fed
J. Gilbert	6X44	700	Hart	Pastorella	Self	Lyman	6X	RemBR	37.5g W760	Berger 68g	7.5
E. Shinkle	30 SFG	Rem	McLennen	Pastorella	Pastorella	Weaver	6X	P.M.C	36.0g GI322	Watson125g	205M
R. Fritz	30/30	Rem 722	Lilja	Fritz	Long	Weaver	6X	Fed	37.0g T 322	Fritz134g	7.5
I. Farnsworth	30 ISHMA	700 Rem	Hart	Farnsworth	Hart	Leupold	6X	R-P	38.5g 760	Sierra168g	9.5 Rem
D. Kern	6X44	Rem700	Hart	Self	Self	Weaver	6X	RemBR	34.0g H414	Self 68g	7.5

VARMINT FOR SCORE Top 10 Equiment List

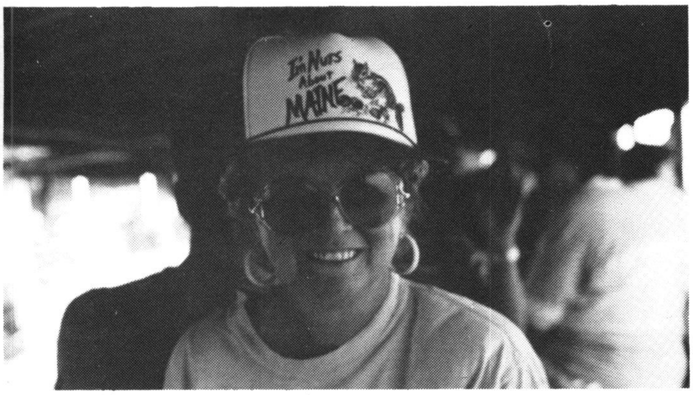
name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
T. Parreco	6 PPC	Hall	Schneider	Sinclair	Meridith	Premier	18-40X	Sako	29.0g 4895	Fowler 63g FB	7.5
R. Whiteash	6 PPC	Stolle	Hart	Brackney	G&W	B&L	36X	Sako	28.2g H 322	Rub 65g BT	Fed
C. Willard, Jr	30	Witchita	Schnieder	Buhrman	Self	Lep. Pr.	60X	Rem	41.0g H 4895	S.G.150g	Fed
D. Ogden	6 PPC	Hart	Hart	Pastorella	Pastorella	B&L	36X	USA	28.0g H 322	VP 70g	Rem 7.5
A. Whiteash	6 PPC	Trophy	Atk	Weider	Weider	Leupold	36X	Sako	27.7g H322	Rub 68g BT	Fed
L. Bruno	6 PPC	Stolle	Hart	C-Miller	Self	Leupold	36X	Sako	28.0g H 322	Bruno	205
G. McCoy III	6 PPC	Teddy	Hart	Kelby	Sinclair	B&L	36X	USA	27.2g H 322	Watson 68g FL	7.5
F. Stohner	6 mm	Hart	Hart	Self	Hart	Leupold	36X	Sako	30.0g GI 322	Holliste 68g	F205
D. Erskine	6 PPC	788	Hart	Furrow	Furrow	Leupold	36X	Sako	27.5g H 322	Watson 68g	Fed
R. Miller	6 PPC	XP-100	Hart	Kern		Leupold	36X	Sako	27.0g H 322	Kern 65g	Fed

VARMINT HUNTER Top 10 Equiment List

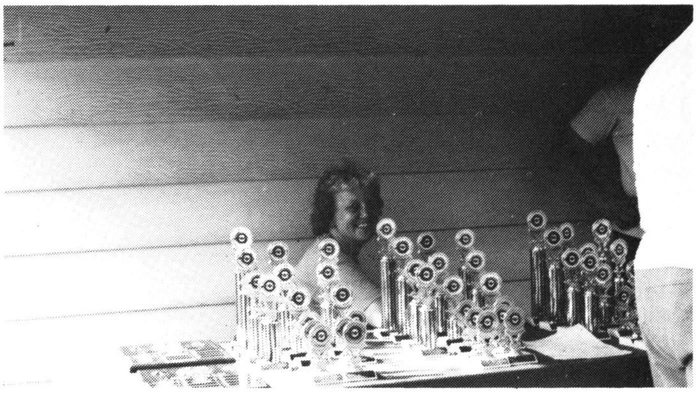
name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
J. Gilbert	6 PPC	700	Hart	Masker	Masker	Lyman	6X	Sako	28.0g H 322	Euber 68g	205M
A. Kogoy	6 PPC	Rem	Chanlynn	Fritz	Fritz	Leup	6X				
M. Williams	6 PPC	Rem	Hart	Self	Self	Weaver	6X	Sako	27.5g H 322	Olewine 70g	Fed 205
D. Furrow	6 PPC	Rem	Hart	Furrow	Furrow	Leupold	6X	Sako	27.5g H 322	Watson 68g	Fed
F. McKee	6 American	Rem	Schneider	Madeira	Madeira	PremLeup	6X	Fed	28.5g H 4895	Fowler 69g	205M
B. Creasy	6BR	Rem	MacLennan	Fritz	Fritz	Lyman	6X	Rem	H 322	Fritz625g	Rem
J. Zeyn	6MM	700	Hart	Pastorella	Pastorella	Weaver	6X	Rem	28.5g H 322	VP 70g	7.5
R. Silver	6PPC	Rem	Wiseman	Pryor	McPherson	Leupold	6X	Sako	26.0g 8208	Flower 66g FB	205M Fed
P. Hills	222	Rem 700	Hart	Hart		Leupold	6X	Fed	24.0g 748	Berger 52g	Fed
G. McPherson	6 PPC	Rem 700	Hart	Pryor	McPherson	Leupold	6X	Sako	27.0g 8208	Fowler 66g FB	Fed 205M

1990 PENNSYLVANIA SCORE SHOOTING CHAMPIONSHIPS

(Photos courtesy of Joe Gilbert)

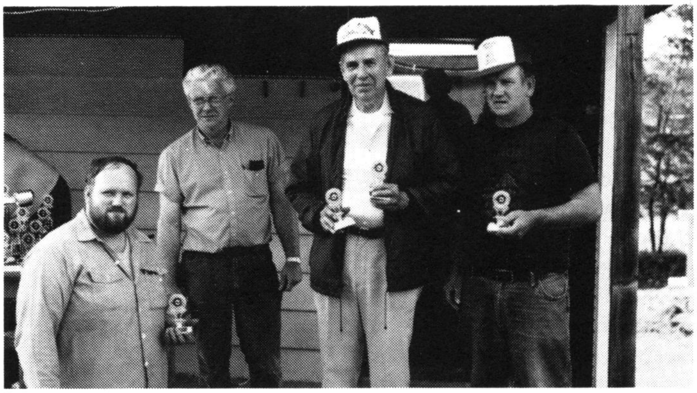


Helen Long, and somehow or other Joe Gilbert has sweet-talked her into wearing a State of Maine cap.



Marty Creasy — long time honcho of statistics at Mainville.

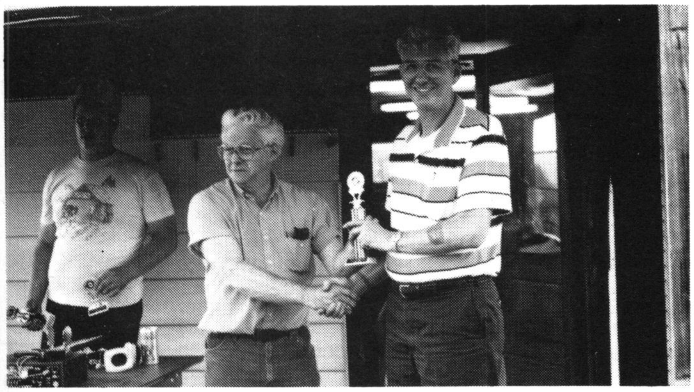
Class winners (l to r), hunter: Clark Greene, varmint for score: Ted Parreco, varmint hunter: Joe Gilbert.



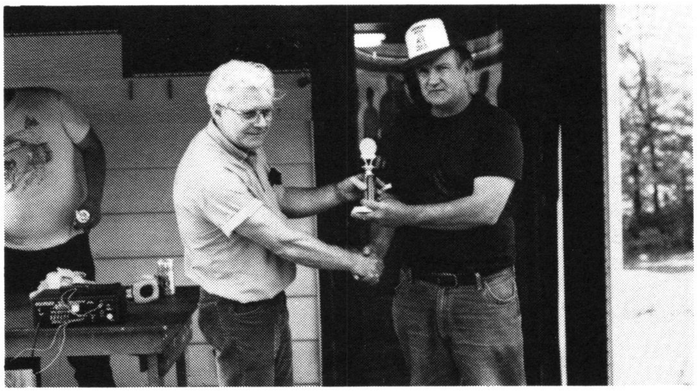
Four man team winners, varmint hunter class (l to r), Parker Hills, Joe Gilbert, and Dwight Furrow (Ira Farnsworth, the fourth shooter was lost again).

Four man team winners, hunter class (l to r), Gary Long, Al Kogoy, Vince Pastorella, Randy Fritz.

Todd Fritz driving, with a member of the hard working target crew.



Guy Chism, of St. Louis, Mo. — second in hunter class grand agg.

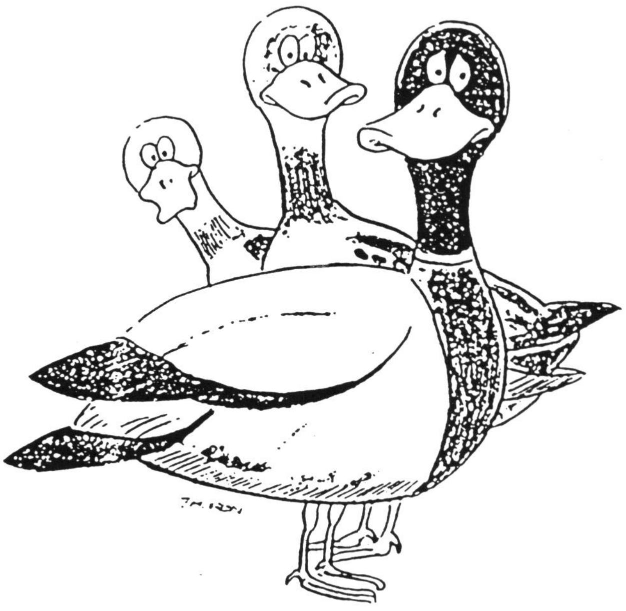


Dwight Furrow, of the Pine Tree State.

STRANGE DUCK

York, PA

August 4-5, 1990



Since Precision Shooting magazine has a direct pipeline to Divine Province (that's a small suburb of Providence, Rhode Island . . . about ten miles west, as I recall . . .), the match that we sponsor (this is the second year . . . just a tad short of a long and distinguished tradition) quite naturally had great weather, a 75 shooter turnout, and three records broken on a tentative basis. That ain't too shabby, and we are greatly pleased with the way that things obviously went. Our congratulations and thanks to both the York club, the shooters overall, and in particular . . . to the Strange Ducks.

Most are familiar with the Strange Duck rules . . . in the heavy varmint class, if you choose to ignore the whole, silly thing, and shoot a 6PPC . . . hey, your full right. But, if you choose to enter the class, and shoot anything OTHER THAN 6MM . . . well, that makes you automatically a STRANGE DUCK (probably true in both theory and real life) . . . which means that you are now entered in both the heavy varmint class . . . and the Strange Duck subclass. As someone smarter than the editor (could be almost anyone, based on that description) once described it, "it's a contest within a contest".

This year some 16 tormented, disturbed, social misfits chose to enter the Strange Duck Competition. There were, among the ranks, once-great-shooters (Dr. Maretzo), rookie shooters (George Kelbly), and junior shooters (Homer Culver). The fair sex was entered (Kit Jansen), and Dave Jansen as well (we are leaving a space for you to fill in your own comment on that, dear reader ....). When the smoke of battle had cleared, and the dead and sorely wounded lugged off the field of combat ("Stack 'em over behind the target frames shed, Roger . . .") the Strange Duck top finishers were as follows:

Strange Duck, 100 yards

1.) Harold Reger	.2448
2.) Richard Lockwood	.2508
3.) Bill Brawand	.2518

Strange Duck, 200 yards

1.) Dr. G.C. Schaefer	.2542
2.) Vince Giaimo	.2690
3.) Dave Jansen	.2768

Strange Duck, grand aggregate

1.) Richard Lockwood	.2720
2.) Paul Beaver	.2845
3.) Harold Reger	.2911

With the Strange Duck now duly reported on (first things first, fella. Stop agitating) we now turn our attention to those just-a-trifle-timid souls, who chose to shoot their 6PPCs, and thus missed a chance to see their names forever inscribed on the rolls in the Pathenon of Heros. Hey, hang the three new records; ya should have shot in the Strange Duck, fella!

TONY BOYER won the heavy varmint class . . . 100 yard, 200 yard, and grand agg. (Any of this have a familiar ring to it, Emma?) BILL ROWLEY hung tough, with a third place at 100 yards, and a second place at 200 yards (such shooting usually wins the grand agg in a cake-walk; he settled for second place. JIM GREENAWALT, a familiar name from the early days of the sport, pulled into the train station in third place.

Heavy varmint class, 100 yards

1.) Tony Boyer	.1812
2.) Jim Greenawalt	.1912
3.) Bill Rowley	.1954
4.) Harlan Hoffer	.2064
5.) Richard Morton	.2064

Heavy varmint class, 200 yards

1.) Tony Boyer	.2062
2.) Bill Rowley	.2392
3.) Roye Leckemby	.2439
4.) Jerry Faul	.2473
5.) Jim Greenawalt	.2523

Heavy varmint class, grand aggregate

1.) Tony Boyer	.1937
2.) Bill Rowley	.2173
3.) Jim Greenawalt	.2218
4.) Faye Boyer	.2499
5.) Roye Leckemby	.2585
6.) Eubert Burgess	.2661
7.) Ted Parreco	.2692
8.) Milt Cook	.2701
9.) Richard Lockwood	.2720
10.) Bob White	.2732

In the accompanying sporter class, MILT COOK threw an .1816 agg at 'em to win the 100 yard stage, TONY BOYER "came back

TARGETS

Target #	Distance	Description	Size	Tgts Per Carton	Shipping Weight Per Ctn	Price Per 100 Tgts
IBS-B/1	100 Yard	Benchrest Black	8x15½	500	15#	6.70
IBS-B/2	200 Yard	Benchrest Black	8x16½	500	15#	6.70
IBS-B/3	300 Yard	Benchrest Red	12x23½	250	19#	20.50
IBS-H/1	100 Yard	Hunter Black	12x19	250	14#	10.00
IBS-H/2	200 Yard	Hunter Black	13x31	250	15#	10.00
IBS-H/3	300 Yard	Hunter Red	13x26	250	22#	23.75

Speedwell Division, Rockwood Corporation, 136 Lincoln Blvd, Middlesex, NJ 08846
201-560-7171 or 800-243-8274

in the night cap" (that's baseball talk) to take 200 yards, and BARRY DEVLIEGHER snuck in front of both of them to grab the grand aggregate.

Sporter class, 100 yards:

1.) Milt Cook	.1816
2.) Barry Devliegher	.1998
3.) Glenn Smith	.2056
4.) Mike Barlow	.2126
5.) Don Jones	.2232

Sporter class, 200 yards:

1.) Tony Boyer	.2088
2.) Sam Salyards	.2292
3.) Barry Devliegher	.2301
4.) Richard Morton	.2334
5.) Faye Boyer	.2427

Sporter class, grand aggregate

1.) Barry Devliegher	.2150
2.) Milt Cook	.2206
3.) Tony Boyer	.2431
4.) Sam Salyards	.2455
5.) Glenn Smith	.2482
6.) Richard Morton	.2518
7.) Tom Peria	.2567
8.) Mike Barlow	.2608
9.) Ted Parreco	.2609
10.) Harold Reger	.2614

Two Gun aggregate (heavy varmint-sporter)

1.) Tony Boyer	.2184
2.) Milt Cook	.2454
3.) Bill Rowley	.2470
4.) Barry Devliegher	.2485
5.) Jim Greenawalt	.2556
6.) Ted Parreco	.2651
7.) Faye Boyer	.2666
8.) Tom Peria	.2727
9.) Harold Reger	.2762
10.) Bob White	.2787
11.) Smiley Hensley	.2817
12.) Eubert Burgess	.2823
13.) Ron Dill	.2828
14.) Glenn Smith	.2864
15.) Roye Leckemby	.2886
16.) Don Jones	.2917
17.) Dennis Collins	.2918
18.) Don Gentner	.2930
19.) Sam Salyards	.2964
20.) Jack Sutton	.2971

MAINVILLE

Continued

Chism 244-7x, 2.) Clark Greene 240-5x, 3.) Gary Long 240-2x, 4.) Guy Green 235-2x, 5.) Vince Pastorella 234-4x. At grand agg time things were kind of close for the top spot, between two St. Louis shooters, who steadfastly maintained that they were "just passin' through": 1.) Clark Greene 490-18x, 2.) Guy Chism 490-18x, 3.) Gary Long 488-11x, 4.) Guy Green 482-12x, 5.) Vince Pastorella 481-12x.

Varmint hunter class, 100 yards: 1.) Joe Gilbert 250-17x, 2.) Dwight Furrow 250-15x, 3.) Ray Silver 250-14x, 4.) Frank McKee 250-14x, 5.) Alan Kogoy 250-10x. At 200 yards: 1.) Joe Gilbert 241-5x, 2.) Mike Williams 239-4x, 3.) Alan Kogoy 238-1x, 4.) Dwight Furrow 236-3x, 5.) James Zeyn 233-4x. Since Mr. Gilbert won both yardages, he seems a good bet for the grand aggregate . . . right? 1.) Joe Gilbert 491-22x, 2.) Alan Kogoy 488-11x, 3.) Mike Williams 487-17x, 4.) Dwight Furrow 486-18x, 5.) Frank McKee 482-18x.

Varmint for score class, 100 yards: 1.) Bob McGuigan 250-20x, 2.) Calvin Willard Jr. 250-20x, 3.) Ted Parreco 250-17x, 4.) Dwight Furrow 250-16x, 5.) Eubert Burgess 250-16x. At 200 yards: 1.) Ted Parreco 245-7x, 2.) Rich Whiteash 245-4x, 3.) Al Whiteash 243-3x, 4.) Lester Bruno 241-3x, 5.) Calvin Willard Jr. 240-4x. Grand agg: 1.) Ted Parreco 495-24x, 2.) Rich Whiteash 495-18x, 3.) Calvin Willard Jr. 490-24x, 4.) Dale Ogden 490-15x, 5.) Al Whiteash 490-14x.

STRANGE DUCK **Standings**

GRAND AGG. SD

1. Richard Lockwood	22WD	CPS/McLen	Leupld 36X	26 Gr/322	51 Gr./FB	Sako	Rem 7½	Self	.2730
2. Paul Beaver	22BR	Rem/Hart	Leupld 36X	29 Gr/322	52 Brawnd	BR	Fed.	Skiver	.2845
3. Harold Reger	22sPPC	CPS/Macln	Leupld 36X	27.5 H335	52 Gr Rem.	Sako	Rem 7½	Swindlehurst	.2911

100 Yd.

1. Harold Reger	22sPPC	CPS/MacLen	Leupld 36X	27.5 H335	52 Gr Rem	Sako	Rem 7½	Swindlehurst	.2448
2. Richard Lockwood	22WD	CPS/McClen	Leupld 36X	26 Gr H322	51 Gr FB	Sako	Rem 7½	Self	.2503
3. Bill Brawand	22PPC St.	SL/700	Leupld 36X	26 Gr H322	52 Gr Own	Sako	Fed	Braw	.2518

200 Yd.

1. Dr G C Schaefer	22PPC	40X/Hart	Leupld 36X	28.3/2460	52 Gr Berger	USA/Sako	Fed.	Berger	.2542
2. Vince Giaimo	22PPC	Witch/Hart	Leupld 36X	26 Gr H322	52 Hollister	Sako	Fed.	Greenawalt	.2690
3. Dave Jansen	222	Shln/Chnlyn	Leupld 36X	19.5/322	52 Hollister	Sako	Rem.	Greenawalt	.2768

SPORTER GRAND AGG. TOP 10 EQPT.

1. Barry DeVliegher	6PPC	Stolle/Hart	Prem. 45X	27/H322	66 Gr Fowler	Sako	Fed.	Masker	.2150
2. Milt Cook	6PPC	Stolle/H&S	Leupld 36X	28/GI322	68 Gr Cook	Sako	Fed.	Hasecuster	.2206
3. Tony Boyer	6PPC	Teddy/Shln	----------	28.5/T322	68 Euber	Sako	Fed.	Hollister	.2431
4. Samuel Salyards	6PPC	Hall/Shln	Leupld 36X	27.8/T32	68 Watson	Sako	Fed.	Hammonds	.2455
5. Glenn P. Smith	6PPC	Hart/MacLen	Leupld 36X	28.3/322	63 Own	Sako	Fed.	Lockwood	.2482
6. Rich Morton	6PPC	Hall/Shln	B & L 36X	28/T32	68 Watson	Sako	Fed.	Hammonds	.2518
7. Tom Peria	6PPC	Wichita/Hart	Leupld 36X	28/H322	63 Rubrt	Sako	Fed.	Dixon	.2567
8. Mike Barlow	6PPC	40X/Shln	Leupld 36X	28.3/322	63 Rubrt	USA/Sako	Fed.	Hammonds	.2508
9. Ted Parreco	6PPC	40X/Hart	Premr 40X	29/4895	63 Fowler	Sako	Rem 7½	Sinclair	.2609
10.Harold Reger	6X40PPC	CPS/Hart	Leupld 36X	28.5/H322	63 Brawand	Sako	Rem 7½	Swindlehurst	.2614

HEAVY VARMIT GRAND AGG. TOP 10 EQPT

1. Tony Boyer	6PPC	Teddy/Shln	----------	28.5/T322	68 Euber	Sako	Fed.	Hollister	.1937
2. Bill Rowley	6PPC	Hall/Hart	Ly Sle 36X	28/H322	68 Euber	Sako	Fed.	Heist	.2173
3. Jim Greenawalt	6PPC	Hall B/Char	Leupld 36X	28.5/322	68 Hollister	Sako	Fed.	Self	.2218
4. Faye Boyer	6PPC	Teddy/Shln	Leupld 36X	28.5/T322	68 Euber	Sako	Fed.	Hollister	.2499
5. Roye Leckenby	6MM/Soby	Stolle/Hart	Leupld 36X	26/T32	68/Sobolenski	Rem.	Fed.	Sobolenski	.2585
6. Eubert Burgess	6PPC	Wichita/Schnd	Prem 45X	28.9/H322	68 Euber	USA/Sako	Rem 7½	Buhrman	.2661
7. Ted Parreco	6PPC	Hall/Schndr	Prem 40X	29/4895	63 Fowler	Sako	Rem7½	Sinclair	.2692
8. Milt Cook	6PPC	Stolle/H&S	Leupld 36X	28/GI322	68 Cook	Sako	Fed.	Hasecuster	.2701
9. Richard Lockwood	22WD	CPS/McClen	Leupld 36X	26/H322	51 FB	Sako	Rem 7½	Self	.2720
10.Bob White	6PPC	CPS/Schndr	B & L 36X	28.4/H322	63 Rubrt	Sako	Fed.	White	.2732

Camilius 7/21-22/90. Camillus Sportsmen's Club, Camillus, New York 07/21/90 to 07/22/90

Heavy Varmint Grand Aggregate Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
W. ELLISON*	6 MM	STOLLE	HART	DOWLING	MCMILLIAN	B & L	36X	RUS22	28.0g 322	BERGER 68g	REM
P. BEAVER*	6 PPC	REM	MCMILLIAN	LOCKWOOD		LEUPOLD	36X		28.0g 322	DEMONSTY	FED
N. BARBER*	6 x 47 PPC	SWINDLHRST	MACLENNAN	SWINDLHRST	SWINDLHRST	B & L	36X	6 USA	26.5g GI322	HOTTENST 68g	FED 205
A. SKIVER*	6	REM	HART	SKIVER		LEUPOLD	36X	220 R	28.0g H322	DEMONSTY 68g	FED
J. OLIVER*	6 PPC	STOLLE	HART	OLIVER	OLIVER	LEUPOLD	50X	SAKO	28.0g H322	HOLLISTR 68g	FED 205
D. ABBOTT*	22 PPC	SWINDLHRST	HART	SWINDLHRST	SWINDLHRST	LEUPOLD	36X	SAKO	26.5g GI322	BRAWAND 52g	FED 205
R. MITCHELL*	6 PPC	STOLLE	HART	DOWLING	DOWLING	LEUPOLD	X	USA	28.0g H322	MITCHELL 66g	FED 205
R. DEMONSTOY*	6 PPC	STOLLE	HART	HAMMOND	MASKER	LYMAN	30X	SAKO	28.0g 322	SELF 68g	REM 7.5
B. SUTTON*	6 MM	HART	HART	HART RB	HART RB	LEUPOLD	36X	OLE	51.5g H322	MESSER 68g	FED
B. WHITE*	6 PPC	CPS	SCHNEIDER	B. WHITE	B. WHITE	B & L	36X	SAKO	28.4g H322	RUBRIGHT 63g	FED 205

Light Varmint Grand Aggregate Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
J. OLIVER*	6 PPC	STOLLE	HART	DIXON	HOARD	LEUPOLD	50X	SAKO	27.5g H322	HOLLISTR 68g	FED. 205
B. RUBRIGHT*	6 PPC	TROPHY	HART	BORDEN	WEIDER	LEUPOLD	36X	SAKO	28.0g GI322	RUBRIGHT 63g FB	FED 205
T. LAKE*	6 PPC	WICHITA	ROCKY MT.	DIXON	DIXON	LEUPOLD	36X	SAKO	27.5g H322	HOLLISTE	FED 205
N. DIXON*	6 PPC	REM 40X	HART	DIXON	DIXON	B & L	36X	SAKO	27.5g H322	HOLLISTE 68g	FED 205
L. HERTZOG	6 PPC	REM 40X	HART	BORDEN	SINCLAIR	B & L	36X	SAKO	28.0g H322	RUBRIGHT 63g	FED 205
R. BAKER	6 PPC	REM XP100	HART	FRITZ	MILLER	LEUPOLD	36X	SAKO	27.0g H322	RUBRIGHT 68g FB	FED 205
A. SKIVER*	6 MM	REM	HART	SKIVER	MCMILLIAN	LEUPOLD	36X	220R	28.0g H322	DEMONSTY 68g	FED 205
W. ELLISON*	6 MM	STOLLE	HART	DOWLING	MCMILLIAN	B & L	36X	RUS22	28.0g 322	BERGER 68g	REM
T. PERIA*	6 PPC	WICHITA	HART	DIXON	DIXON	LEUPOLD	36X	SAKO	27.5g H322	HOLLISTR 68g	FED 205
J. COWAN	6 PPC	HALL	HART	HAMMOND	HALL	LEUPOLD	36X	SAKO	27.2g H322	WATSON 68g	FED

Unlimited Grand Aggregate Top 10 Equiment List

name	caliber	action	barrel	gunsmith	stocker	scope	power	case	load	bullet	primer
B. WHITE*	6 PPC	CPS	SCHNEIDER	B. WHITE	B. HALL	LEUPOLD	36X	SAKO	28.4g H322	RUBRIGHT 63g	FED 205
R. HORNBECK	6 PPC	HART #4	HART	SELF	SELF	B & L	36X	SAKO	27.6g H322	BERGER 62g	REM 7.5
R. DEMONSTOY*	6 PPC	STOLLE	HART	MASKER	MASKER	LYMAN	30X	SAKO	28.0g 322	SELF 68g	REM 7.5
B. WELCH*	6 PPC	WICHITA	HART	WELSH	WELSH	LEUPOLD	36X		27.0g T32	EUBER 68g	REM
B. GRIFFIN	6 PPC	STOLLE	HART	KELBY	MEYER	LEUPOLD	36X	SAKO	28.0g H322	EUBER 68g BT	FED

Camilius 7/21-22/90. Camilius Sportsmen's Club, Camillus, New York 07/21/90 to 07/22/90 (11)

HEAVY VARMINT-UNLIMITED TWO GUN AGGREGATE

		Heavy Varmint						Unlimited						TWO GUN	
		100 yd		200 yd		GRAND		100 yd		200 yd		GRAND		GRAND	
cmp#	NAME	AGG	PL	AGG	PL	AGG	PL	AGG	PL	AGG	PL	AGG	PL	AGG	PL
116	ROBERT DEMONSTOY*	0.2886	3	0.3437	18	0.3162	8	0.3610	5	0.4090	3	0.3850	3	0.3506	2
117	JOHN WAGNER	0.5052	47	0.2977	8	0.4014	32	0.4890	10	0.6085	8	0.5488	8	0.4751	7
119	EDNA WHITE	0.2864	2	0.4457	38	0.3660	21	0.4138	7	0.6192	9	0.5165	7	0.4412	6
120	BOB WHITE*	0.4114	38	0.2462	2	0.3288	10	0.3266	2	0.3099	1	0.3183	1	0.3236	1
121	BOB GRIFFIN	0.3172	10	0.3736	29	0.3454	17	0.3504	3	0.4369	5	0.3936	5	0.3695	4
123	BILL GADDY	0.4310	40	0.4431	37	0.4370	35	0.4444	8	0.7170	10	0.5807	9	0.5089	8
124	WILLIAM FUCHS	0.5682	53	0.3496	23	0.4589	39	0.6026	11	0.6034	7	0.6030	10	0.5310	9
126	STEVE BORSH	0.3122	9	0.4707	39	0.3914	29	0.4542	9	0.4843	6	0.4696	6	0.4305	5
129	BUD WELCH*	0.3308	16	0.3284	13	0.3296	11	0.3562	4	0.4186	4	0.3874	4	0.3585	3

CAMILLUS

The Camillus Sportsmens Club hosted the New York State Championships on July 21-22. BOB WHITE won the heavy bench class, as well as the heavy bench-heavy varmint two gun aggregate. JIM OLIVER won the light varmint class, as well as the light varmint-heavy varmint two gun aggregate. WOODY ELLISON took home the heavy varmint class win. And AL SKIVER won the Clyde Hart Memorial Match with a 200 yard ten shot group that measured .548. There were some 60 shooters on the grounds for the weekend match.

Heavy varmint class, 100 yards:

1.) Dave Abbott	.2632
2.) Edna White	.2864
3.) Bob Demonstoy	.2886
4.) Al Skiver	.2888
5.) Norm Barber	.2940

Heavy varmint class, 200 yards:

1.) Woody Ellison	.2348
2.) Bob White	.2462
3.) Paul Beaver	.2558
4.) Norm Barber	.2766
5.) R.F. Mitchell	.2847

Heavy varmint class, grand aggregate:

1.) Woody Ellison	.2689
2.) Paul Beaver	.2765
3.) Norm Barber	.2853
4.) Al Skiver	.2968
5.) Jim Oliver	.3048
6.) Dave Abbott	.3111
7.) R.F. Mitchell	.3130
8.) Bob Demonstoy	.3162
9.) Bill Sutton	.3219
10.) Bob White	.3288

Light varmint class, 100 yards:

1.) Tom Lake	.3102
2.) Al Skiver	.3106
3.) Brian Rubright	.3158
4.) Jim Oliver	.3174
5.) James Hart	.3200

Light varmint class, 200 yards:

1.) Richard Baker	.2964
2.) John Cowan	.3051
3.) Jim Oliver	.3071
4.) Brian Rubright	.3239
5.) Norm Dixon	.3291

Light varmint class, grand aggregate:

1.) Jim Oliver	.3123
2.) Brian Rubright	.3199
3.) Tom Lake	.3278
4.) Norm Dixon	.3439
5.) Larry Hertzog	.3538
6.) Richard Baker	.3542
7.) Al Skiver	.3542
8.) Woody Ellison	.3550
9.) Tom Peria	.3601
10.) John Cowan	.3605

Heavy bench class, 100 yards:

1.) Rick Hornbeck	.3094
2.) Bob White	.3266
3.) Bob Griffin	.3504
4.) Bud Welch	.3562
5.) Bob Demonstoy	.3610

Heavy bench class, 200 yards:

1.) Bob White	.3099
2.) Rick Hornbeck	.3919
3.) Bob Demonstoy	.4090
4.) Bud Welch	.4186
5.) Bob Griffin	.4369

Heavy bench class, grand aggregate:

1.) Bob White	.3183
2.) Rick Hornbeck	.3507
3.) Bob Demonstoy	.3850
4.) Bud Welch	.3874
5.) Bob Griffin	.3936

Light varmint-heavy varmint 2 gun agg:

1.) Jim Oliver	.3085
2.) Woody Ellison	.3119
3.) Al Skiver	.3255
4.) Norm Barber	.3279
5.) R.F. Mitchell	.3396
6.) Bill Sutton	.3478
7.) John Cowan	.3481
8.) Tom Lake	.3484
9.) Brian Rubright	.3523
10.) Tom Peria	.3596

Heavy bench-heavy varmint 2 gun agg:

1.) Bob White	.3236
2.) Bob Demonstoy	.3506
3.) Bud Welch	.3585
4.) Bob Griffin	.3695
5.) Steve Borsh	.4305

DUNHAM'S BAY

The Dunham's Bay club hosted the New York State hunter class championships on June 16th and 17th. JOE GILBERT gave an early-season fireworks show of his own, with an IBS tentative record 250-24x fired in the varmint class. As Charlie Fountaine remarked in his match bulletin, "Let me tell you that I more than take my hat off to anyone who can fire twenty four X's with a six power scope; I don't care what he has for horsepower under it." Aptly said, sir.

Hunter class (16 shooters) 100 yards: 1.) Frank McKee 248-15x, 2.) Charlie Fountaine 248-7x, 3.) Bill Niemi 248-7x, 4.) Matt Kalbarczyk 247-15x, 5.) Dan Caruso 247-13x. At 200 yards: 1.) Tom Svack 242-2x, 2.) Frank McKee 241-4x, 3.) Matt Kalbarczyk 241-4x, 4.) Gary Long 241-1x, 5.) Bill Niemi 240-2x. Grand agg: 1.) FRANK McGEE 489-19x, 2.) Tom Svack 489-7x, 3.) Matt Kalbarczyk 488-19x, 4.) Bill Niemi 488-9x, 5.) Gary Long 487-9x.

Varmint hunter class (10 shooters) 100 yards: 1.) Joe Gilbert 250-24x, 2.) Bill Niemi 249-8x, 3.) Dwight Furrow 248-14x. At 200 yards: 1.) Joe Gilbert 246-7x, 2.) Dwight Furrow 243-4x, 3.) Gary Long 242-1x. Grand agg: 1.) JOE GILBERT 496-31x, 2.) Dwight Furrow 491-18x, 3.) Ed Hoard 488-9x.

Varmint for score class (29 shooters). At 100 yards: 1.) Don Sargood 250-19x, 2.) Tom Lake 250-19x, 3.) Don Cameron 250-18x, 4.) Tom Svack 250-18x, 5.) Jim Oliver 250-18x. At 200 yards: 1.) Jim Oliver 248-6x, 2.) Lou Church 248-3x, 3.) Tom Peria 247-7x, 4. Don Sargood 247-5x, 5.) Jeanne Lynn 247-5x. Grand agg: 1.) JIM OLIVER 498-24x, 2.) Don Sargood 497-24x, 3.) Jeanne Lynn 497-21x, 4.) Lou Church 497-12x, 5.) Charlie Fountaine 496-17x.

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June 10, 1990

SHOOT REPORT

VARMINT FOR SCORE

Place	Name	First	Class	Score	Aggregate	Caliber	Action	Barrel	Scope	Bullet	Weight	Powder	Weight	Primer	Smithed by
1st	McGuigan	Bob	HV	250-16	250-16	6 PPC	Hart	Stolle	Leupold 36X	Kern	68.0	H322	28.0	Fed 205M	V. Pastorella
2nd	Madeira	Dale	HV	250-16	499-23	6 SBR	Rem XP100	Hart	Leupold 36X	Berger	68.0	H322	28.5	Fed 205M	Madeira
3rd	Parreco	Ted	LV	250-16	500-34	.240 Hawk	Hall	Lilja	Prem. 18-40X	Fowler	63.0	H4895	29.5	Rem 7.5	Sinclair
4th	Madeira	Craig	HV	250-15	500-31	6 SBR	Rem	Lilja	B & L 36X	S. G.	68.0	H322		Fed 205M	Madeira
5th	Rea	Doug	LV	250-13	500-27	6 PPC	Rem 40X	Hart	B & L 36X	Kern	68.0	GI322	27.7	Rem 7.5	
6th	Rypkema	Bert	HV	250-12	250-12	6 PPC	Stolle	Lilja	B & L 36X	Watson	68.0	H322	27.5	Fed 205M	Hammonds
7th	Frask	Corey	LV	250-12	499-25	6MM	Stolle	Hart	Leupold 36X	Pastorella	70.0	H322	27.5	Fed 205M	V. Pastorella
8th	Hain	Dick	LV	250-11	500-34	6 PPC	Trophy	Hart	B & L 36X	Kern	68.0	H322	28.0	Rem 7.5	
9th	Coulston	Bud	LV	249-18	249-18	6 PPC	Rem 40X	Hart	Leupold 36X	Euber	68.0	H322	27.5	Fed 205M	
10th	Hill	Harold, Jr.	LV	249-15	498-22	6 PPC	CPS	Schneider	Leupold 36X	Rubright	65.0	H322	27.8	Rem 7.5	R. White
11th	Whiteash	Al	LV	249-13	499-23	6 PPC	Hall	Atkinson	Leupold 36X	Rubright	65.0	H322	27.4	Fed 205M	B. Weider
12th	Hobbs	Gary	HV	249-13	499-24	6 PPC	Wichita	Hart	Leupold 36X	Rubright	68.0	H322	28.0	Fed 205M	Masker
13th	Sassani	Gino	HV	249-12	249-12	6BR	Rem	Lilja	B & L 36X	Berger	68.0	H322	30.0	Rem 7.5	K. Madeira
14th	Messner	Tom	HV	249-11	498-21	6 PPC	Trophy	Hart	Leupold 36X	Rubright	68.0	H322	27.6	Rem 7.5	B. Wieder
15th	Whiteash	Rich	LV	249-10	497-22	6 PPC	Trophy	Hart	Leupold 36X	Rubright	65.0	H322	28.1	Fed 205M	B. Weider
16th	Madeira	Linda	HV	249-10	249-10	6MM Sniper	Sako	Hart	Leupold 36X	Berger		H322		Fed 205M	K. Madeira
17th	Kranch	Dave	LV	249-08	497-17	6MM									
18th	Livengood	Kenneth	LV	249-06	498-11	6MM	Hart	Hart	Leupold 36X	Pastorella	70.0	H322	33.0	Fed 205M	V. Pastorella
19th	Gingher	Tom	LV	248-14	496-25	.22 PPC	Rem	Hart	B & L 24X	Pastorella	52.0	H322	25.6	Fed 205M	Fritz
20th	Brenner	Howard	LV	248-10	248-10	6 PPC	Rem	Shilen	Leupold 36X	Bruno	65.0	H322	27.5	Fed 205M	
21st	Madeira	Kirk	HV	248-10	497-19	6 PPC	Rem	Hart	B & L 36X	Hart	62.0	H4895		Fed 205M	Self
22nd	Charles	Leslie	LV	248-10	496-17	.222	Rem	Hart	Leupold 36X	Sierra	53.0	748	25.0	Fed	Green
23rd	Ryan	Paul	HV	247-10	247-10	6 PPC	Rem 40X	Shilen	Leupold 36X	Rubright	63.0	H322	28.0	Rem 7.5	Borden
24th	Hill	Wayne	LV	247-05	247-05	6 PPC	Hart	Hart	B & L 36X	Rubright		H322	27.8	Rem 7.5	Hart
25th	Miller	Richard	LV	246-10	492-17	6 PPC	Rem XP100	Hart	Leupold 36X	Kern	65.0	H322	27.5	Fed 205M	D. Kern
26th	Heuer	William L.	LV	244-08	244-08	6 PPC	Rem XP100	Hart	Leupold 36X	Watson	65.0	H322	28.0	Fed 205M	
27th	Flammer	Richard	HV	DNF	294-14	.222	Rem 700	Rem	Leupold 36X	Hart		H322		Rem 7.5	K. Madeira
28th	Svack	Tom	HV	DNF	239-12	6 PPC	CPS	Hart	Leupold 36X	Euber	68.0	H322	27.6	Fed 205M	Masker

HUNTER CLASS

Place	Name	First	Class	Score	Aggregate	Caliber	Action	Barrel	Scope	Bullet	Weight	Powder	Weight	Primer	Smithed by
1st	Green	Guy	H	249-09	484-13	.308 Win	Rem 722	Hart	Pecar 6X	Sierra	168.0	H4895	42.0	Fed 210M	Self
2nd	McKee	Frank	H	248-16	248-16	.30 Ardvark	Rem	Schneider	Pre Leu 36X	S.G.	125.0	H322	36.5	Fed 205M	Madeira
3rd	Pastorella	Vince	H	248-15	495-25	.308	Rem	Hart	Weaver 6X	Pastorella	168.0	H4895	41.0	Fed	Self
4th	Long	Gary	H	247-10	247-10	30 X 47	Rem	MacLennon	Leupold 6X	Chism	150.0	748	41.0	Fed 210	Fritz
5th	Baker	Carl	H	246-11	246-11	HC .30-30	Rem	Lilja	Weaver 6X	Chism	150.0	H4895	36.0	Rem 7.5	Lilja
6th	Kogoy	Alan	H	244-09	491-22	.30 Amer.	Rem 700	Chan Lynn	Leupold 6X						Fritz
7th	Heuer	William L.	H	244-06	244-06	.308 Win	Rem	Hart	Leupold 6X	Sierra	168.0	H4895	40.0	Rem	B. White
8th	Yingling	Chris	H	243-04	243-04	6MM HLS	Rem	Hart	Leupold 6X	Pastorella	70.0	H4895	32.2	Fed 210M	N. Berger
9th	Johnston	Mark	H	241-04	478-07	6 American	Rem 700	Lilja	Leupold 6X	Pastorella	70.0	H414	37.5	Rem 7.5	Tooley
10th	Fritz	Todd	H	240-05	240-05	.30-30	Rem	Hart	Lyman 6X	Fritz	135.0	H322		Rem 7.5	Tar-Hunt
11th	Svack	Tom	H	240-05	484-11	6X250	Rem 700	Hart	Weaver 6X	Hollister	70.0	H380	35.0	Fed 210	Masker
12th	Kranch	Dave	H	240-03	481-08	6MM									
13th	Fritz	Randy	H	236-03	481-12	.30-30	Rem 700	Polygon	Weaver 6X	Fritz	135.0	T322	37.0	Rem 7.5	Fritz
14th	Fritz	Randall	H	235-03	235-03	25 X 45	Rem 700	Hart	Weaver 6X	Winchester	75.0	T322	36.0	Rem 7.5	Fritz
15th	Hachten	Wayne	H	234-07	479-18	.300 HBR	Rem	Hart	Leupold 6X	Sierra	150.0	748	42.2	Fed 210M	Fritz
16th	Fetterly	Donald	H	DNF	000-00	.30-06 Imp	Mauser 98	Douglas	Weaver 2.5/7	Seirra	125.0	4350	62.0	CCI 250	Taggart

VARMINT HUNTER CLASS

Place	Name	First	Class	Score	Aggregate	Caliber	Action	Barrel	Scope	Bullet	Weight	Powder	Weight	Primer	Smithed by
1st	Svack	Tom	VH	250-16	498-26	6 SMW	Rem 700	Hart	Leupold 6X	Euber	68.0	748	30.0	Fed 205M	Masker
2nd	McKee	Frank	VH	250-09	499-24	6 American	Rem	Schneider	Pre Leu 6X	Fowler	69.0	H322	28.5	Fed 205M	K. Madeira
3rd	Weaver	Al	VH	248-11	498-24	6 PPC	Rem 700	McLennan	Leupold 6X	Pastorella	70.0	H322	25.5	Fed 205M	V. Pastorella
4th	Kern	Dave	VH	248-09	494-13	6 BR	Rem 700	Hart	Weaver 6X	Kern	68.0	H322	30.5	Rem 7.5	Self
5th	Kogoy	Alan	VH	247-09	495-16	6 PPC	Rem 700	Chan Lynn	Luepold 6X						Fritz
6th	Frask	Pete	VH	246-09	494-19	6MM	Rem 700	Hart	Weaver 6X	Pastorella	70.0	H322	29.5	Fed 205M	V. Pastorella
7th	Groff	Tony	VH	246-07	494-18	6 PPC	Rem	McMillan	Leupold 6X	A. J.	67.0	4320	27.8	Fed 205M	C. Hammonds
8th	Hobbs	Gary	VH	235-07	477-10	6 PPC	Rem 700	Hart	Weaver 6X	Euber	68.0	H322	27.6	Fed 205M	Masker

Referee's

Dave Kern, Pete Frask and Ken Livengood

From the bench:

The turn out for our second shoot of the year was excellant though there were a few familiar faces missing due to the Nationals as Wiechert. We had quite a few new shooter's join the I.B.S. ranks as well as a more than average turnout in the Hunter Class, (16) shooter's to be exact and one even put a .30-06 Imp. to the test through the warm up. Seems like the boys with the big scopes (36-X) are losing ground to the little guys. Some of the scores I've seen give good reason to consider the possibilities. Mr. Svack for example, shot a 250-16X in the Varmint Hunter Class to take top honors, while Frank McKee followed close behind with a 250-09X and Al Weaver with 248-11X. Kind of makes ya wonder, don't it? Read um and weap guys. Next shoot will be July 1 starting at 10:00 a.m. . Looking forward to seeing you all here.

INTERNATIONAL SCHEDULE

SOUPPES / FRANCE: Trophy Cup Sept. 08/09 Heavy Varmint 200/300 M.

BISLEY / ENGLAND: Sept. 13/14 Heavy Varmint 100/200 Y. Sept. 15 Unlimited 1000 Y.

WIESBADEN / GERMANY: Sept. 28/29 Heavy Varmint 100/300 M.

CODOGNO / ITALY: Oct. 06/07 Heavy Varmint 100/200 M.

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1990 TENTATIVE IBS SCORE SHOOTING SCHEDULE

Sept. 2 — CAPITAL CITY RIFLE & PISTOL CLUB, Augusta, Maine — 100 Yards VFS, PM

Sept. 2 — IWLA YORK, York, Pa. 200 Yards H-VH-VFS, 11 AM

Sept. 8-9 — IBS Score Championships, MAINVILLE SPORTSMENS CLUB, Mainville, Pa. — 100 Yards Sat. 10 AM, 200 Yards Sun. 9 AM H-VH-VFS

Sept. 16 — UNION COUNTY SPORTSMENS CLUB, Weikert, Pa. — 200 Yards H-VH-VFS, 11 AM

Sept. 16 — SALISBURY GUN CLUB, Salisbury, Maryland — 100 Yards H-VH-VFS, 11 AM

Sept. 23 — DUNHAMS BAY FISH & GAME CLUB — 100 yards H

Sept. 30 — SULPHYR SPRINGS R & R CLUB, Muncy, Pa. — 100 Yards H-VH-VFS, 10 AM

Oct. 7 — LEETOWN GUN CLUB IWLA, Leetown, West Virginia — 100 Yards H-VH-VFS 10 AM

Oct. 7 — SALISBURY GUN CLUB, Salisbury, Maryland — 200 Yards H-VH-VFS, 11 AM

Oct. 14 — UNION COUNTY SPORTSMENS CLUB, Weikert, Pa. — 100 Yards H-VH-VFS, 11 AM

Oct. 20 — FLORIDA BENCHREST SHOOTERS — Florida Hunter Shoot-Off — Hunter, Varmint Hunter & Varmint for Score 100 yards 9 am

Oct. 21 — IWLA YORK, York, Pa. 100 Yards H-VH-VFS, 11 AM

Nov. 4 — SALISBURY GUN CLUB, Salisbury, Maryland — 100 Yards H-VH-VFS, 11 AM

AUGUSTA

The Capitol City (Maine) club hosted its first ever registered group match on June 24th.

Heavy varmint class (10 shooters): 1.) Blaine Johnson .2430, 2.) Claude Poirier .3002, 3.) Tom Svack .3060, 4.) Joe Gilbert .3254, 5.) Al Gustafson .3336.

Light varmint class (7 shooters): 1.) Charlie Fountaine .3238, 2.) Al Joly .3620, 3.) Tom Svack .4348.

Varmint for score (12 shooters): 1.) Charlie Fountaine 250-15x, 2.) Claude Poirier 250-15x, 3.) Blaine Johnson 250-13x, 4.) Al Gustafson 250-12x, 5.) Dwight Furrow 250-12x.

1990 TENTATIVE IBS VARMINT SHOOTING SCHEDULE

Sept. 2 — CAPITAL CITY RIFLE & PISTOL CLUB, Augusta, Maine — 100 Yards HV+LV, 9 AM

Sept. 22 — FLORIDA BENCHREST SHOOTERS — HV & LV, 100 yards, 9 am

Sept. 23 — DUNHAMS BAY FISH & GAME CLUB, Memorial Shoot — 100 meters HV

Sept. 29-30 — FAIRCHANCE GUN CLUB, Smithfield, Pa. — Sat. 9 AM 100 Yards HV-AM, HB-PM, Sun. 8 AM 200 Yards HB-AM, HV-PM

Oct. 27-28 — IWLA, York, Pa. — New Jersey State Championship — Sat. 100 yards HV-AM, LV-PM; Sun. 200 yards HV-AM, LV-PM; 8:00 starting both days

Oct. 28 — MAINVILLE, Mainville, Pa. — 100 Yards HV, 11 AM Hunter rifles to shoot group on a score target.

Nov. 17 — FLORIDA BENCHREST SHOOTERS — HV & LV, 100 yards, 9 am

Jan. 19, 1991 — FLORIDA BENCHREST SHOOTERS — Florida Invitational — HV & LV, 100 yards, 9 am

Feb. 16-17, 1991 — FLORIDA BENCHREST SHOOTERS — Florida State Championships — Sat. 16th HV & LV 100 yards; Sun. 17th Hunter & Varmint for Score 100 yards

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SEPTEMBER 8 & 9, 1990

PRE-REGISTRATION REQUIRED BY IBS LETTER OF INTENT BY AUGUST 8, 1990

Classes--Hunter, Varmint Hunter, Varmint for Score
Saturday September 8, 100 Yards, Starting time 10:00 AM
Sunday September 9, 200 Yards, Starting time 9:00 AM
Awards--all classes
- 1st, 2nd, 3rd both ranges
- Traveling Trophy and Keeper, 2nd, 3rd, 4th, 5th Grand Agg
- Top ten awards
- Match pins
- Participation Patches
- High X count both ranges
- 4-Man Team (all team members same class)

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Camping available (no charge)
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4-Man Team $1.00 per member

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Hotel Magee--717-784-3200 (5 miles)
Tenny Town Motel--717-784-1812 (8 miles)
Quality Inn--717-784-5300 (8 miles)
Stone Castle Motel--784-6560 (9 miles)
Red Roof Inn--1-800-THE-ROOF (14 miles)

If you need any additional information, please contact us.
Randy Fritz--717-784-6368
Bill Creasy--717-784-8021 (after 6 PM)

__________ class(s) shooting September 8
__________ class(s) shooting September 9
__________ Amount remitted
1 gun 1 day--$14.00 includes IBS fee
1 gun 2 days--$28.00 includes IBS fees
2 guns 1 day--$20.00 includes IBS fee
2 guns 2 days--$40.00 includes IBS fees

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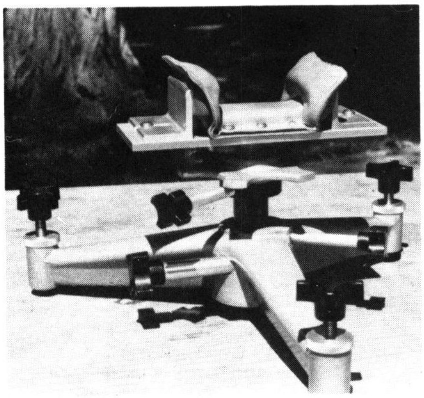

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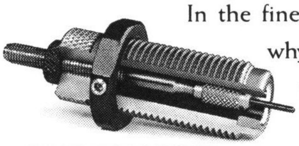

AT RCBS, EACH DIE IS HAND POLISHED AND HAND INSPECTED.

In the fine art of die making, precision is everything. That's why we make RCBS Carbide Dies the way we do. With the finest materials obtainable. Machined by skilled craftsmen. And a mirror-smooth carbide insert, hand-polished with diamond paste, that simply won't scratch cases. All backed by the best guarantee and customer service in the business.

Fact is, reloaders buy more RCBS Carbide Dies than all other brands combined. Like all RCBS reloading dies, they're designed and manufactured with pride in Oroville, California, as they have been for over 40 years.

So before you buy, take a close look at RCBS Carbide Dies. You'll scrap your plans to buy anything else.

RCBS
EVERYTHING WE MAKE IS GUARANTEED FOR LIFE OR FOREVER: WHICHEVER COMES FIRST.
GUARANTEE

IF WE CAN'T GUARANTEE IT, WE WON'T SELL IT.

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